State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio
Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Academy of St Adalbert, Berea

Mr Daniel Anthony
Grade: 8    Project Type: Individual
Project Title: The Effect of Fructose and Sucrose on the Refractive Index of Gelatin

OAS AWARD
Superior

Mr. Thomas M. Bender
Grade: 7    Project Type: Individual
Project Title: What Aggregate Types are Best for Permeable Pavement?

OAS AWARD
Excellent

Ms. Lauren Rolda
Grade: 7    Project Type: Individual
Project Title: Does the Distance from a Parabola Affect Light Intensity?

OAS AWARD
Excellent

Academy of St Bartholomew, Cleveland

Ms Laura Swartz
Grade: 8    Project Type: Individual
Project Title: Liquid Crystals Colors

OAS AWARD
Excellent

Mr. Josh Toothman
Grade: 7    Project Type: Individual
Project Title: The Surprising Strength of Eggshells

OAS AWARD
Superior

Ada HS, Ada

Ms. Josie Phillips
Grade: 7    Project Type: Team
Project Title: Sort It Out

OAS AWARD
Superior

Ms. Caitlyn Purvenas
Grade: 7    Project Type: Team
Project Title: Sort It Out

OAS AWARD
Superior
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

All Saints, Cincinnati

Mr. Tom Spencer Crone
Grade: 7
Project Type: Individual
Project Title: Do Mushroom "Roots" Make Paper Stronger?

Mr. Grant Alexander Jackson
Grade: 7
Project Type: Individual
Project Title: Devising Rubik's Cube Algorithms

Ms. Caroline Grace Shull
Grade: 7
Project Type: Individual
Project Title: Can baking soda substitute for baking powder in a recipe?

Mr. Colin Thaman
Grade: 7
Project Type: Individual
Project Title: Solar Cell Output vs. Temperature

Ms. Beazey Tierney
Grade: 7
Project Type: Individual
Project Title: Cookie Chemistry: Is every ingredient important?

All Saints Academy, Columbus

Ms. Jennifer Esmeralda Parra-Huerta
Grade: 6
Project Type: Individual
Project Title: How Do Roots Grow When the Direction of Gravity Changes?

Alliance HS, Alliance

Ms Caroline Denny
Grade: 9
Project Type: Individual
Project Title: Comparing Heat Shock Methods to improve Bacterial Transformation Efficiency
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Alliance HS, Alliance

Ms. Elizabeth Davidson
OAS AWARD
Excellent
Sponsored Awards -if any
Grade: 10  Project Type: Team
Project Title: Testing the Accuracy of Police Lineups

OAS AWARD
Excellent

Ms. Kemarie Evans
Grade: 10  Project Type: Team
Project Title: Testing the Accuracy of Police Lineups

OAS AWARD
Excellent

Alliance MS, Alliance

Mr. Aidan Robert James
OAS AWARD
Excellent
Sponsored Awards -if any
Grade: 7  Project Type: Individual
Project Title: Dactylography and it's relationship to ABO blood groups

OAS AWARD
Excellent

Anderson HS, Cincinnati

Ms Anna MacLennan
OAS AWARD
Superior
Sponsored Awards -if any
Grade: 10  Project Type: Individual
Project Title: Harvesting Energy From a Musical Instrument

OAS AWARD
Superior

Mr. Jackson Trigg
Grade: 9  Project Type: Individual
Project Title: Could the type of lithium battery help prevent rapid discharge when moving from a hot to cold enviroment?

OAS AWARD
Superior

Ms. Kennedy Alder
Grade: 9  Project Type: Team
Project Title: Battle of the Oils

OAS AWARD
Superior

Ms. Kathleen Duffey
Grade: 9  Project Type: Team
Project Title: Battle of the Oils
<table>
<thead>
<tr>
<th>Name</th>
<th>OAS Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Molly Jean Batchelder</td>
<td>Superior</td>
<td>019 SCH</td>
</tr>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td>Project Title: Effects of Sunscreen Ingredients on Turbidity of Ocean Water</td>
</tr>
<tr>
<td>Ms. McKenzie Lynn Bertsch</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td>Project Title: Biodegradable and NonBiodegradable Plastic Products</td>
</tr>
<tr>
<td>Mr. Ethan James Huecker</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td>Project Title: Whitening Toothpastes and Their Effects on Stained Teeth</td>
</tr>
<tr>
<td>Ms. Emma Catherine Meyer</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td>Project Title: The Use of Bioidentical Testosterone Pellets to Treat Postmenopausal Symptoms</td>
</tr>
<tr>
<td>Ms. Hannah Morgan Shoemaker</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td>Project Title: The ways that different water types affect plant growth</td>
</tr>
<tr>
<td>Ms. Sierra Williams</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td>Project Title: Correlation of Poverty and Postpartum Depression</td>
</tr>
<tr>
<td>Ms. Brianna Elaine Holtzapple</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 11</td>
<td>Project Type: Team</td>
<td>Project Title: Investigating Teenage JUULing</td>
</tr>
<tr>
<td>Ms. Taylor Danielle Kauffmann</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 11</td>
<td>Project Type: Team</td>
<td>Project Title: Investigating Teenage JUULing</td>
</tr>
</tbody>
</table>
Ansonia MS, Ansonia

Ms. Marissa Kay Shook
Grade: 8  Project Type: Individual
Project Title: How Well do Brita Filters Work?

OAS AWARD
Superior

Sponsored Awards -if any

Archbishop Alter HS, Kettering

Ms Caroline Shannon Bishop
Grade: 10  Project Type: Individual
Project Title: Catalase in Liver of Various pHs

OAS AWARD
Superior

Sponsored Awards -if any

Mr Derek Borsody
Grade: 10  Project Type: Individual
Project Title: Low Drag Control Surfaces

OAS AWARD
Superior

Sponsored Awards -if any

Ms. Lily Marie Bradley
Grade: 9  Project Type: Individual
Project Title: Effectiveness of Homemade and Store-Bought Water Filters

OAS AWARD
Excellent

Sponsored Awards -if any

Ms Liesl Carter
Grade: 10  Project Type: Individual
Project Title: Convolutional Neural Networks Recognizing Obscured Street Signs

OAS AWARD
Superior

Sponsored Awards -if any

Ms. Mary-Grace E Davis
Grade: 10  Project Type: Individual
Project Title: The Effectiveness and Safety of Cleaners with Varying pH’s on Floor Tiles

OAS AWARD
Excellent

Sponsored Awards -if any

Ms Cassie Eckert
Grade: 10  Project Type: Individual
Project Title: The Filtration of Nanosilver Using Hollow Fiber Membranes

OAS AWARD
Superior

Sponsored Awards -if any

Ms Arpita Gulati
Grade: 9  Project Type: Individual
Project Title: Beating Bacteria: the Effectiveness of Pharmaceuticals and Herbal Alternatives Compared

OAS AWARD
Superior

Sponsored Awards -if any
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Archbishop Alter HS, Kettering

Ms Taylor Thornburg
Grade: 10  Project Type: Individual
Project Title: The Study of the Effects of Three Different Types of Insulation on Residential Houses with Black Asphalt Shingles.

Archbishop Lyke - St Henry Campus, Cleveland

Ms. Elizabeth Jackson
Grade: 8  Project Type: Team
Project Title: The magic of photo-chemical reactions

Ms. Sheila Latimer
Grade: 8  Project Type: Team
Project Title: The magic of photo-chemical reactions

Archbishop McNicholas HS, Cincinnati

Ms Emily Fridley
Grade: 9  Project Type: Individual
Project Title: The Effect of Different Water Types on Plant Height

Archbold HS, Archbold

Ms Carsyn Hagans
Grade: 9  Project Type: Individual
Project Title: A Survey of Lichen Diversity in Fulton County OH Cemeteries and Spectrophotometric Analysis for Use as Air Quality Indicators

Archbold MS, Archbold

Ms. Elizabeth AdaMarie Theobald
Grade: 7  Project Type: Individual
Project Title: Analysis of Tech Suit Properties Impacting Athlete Performance

Ashland Christian, Ashland

Mr. Gavin Finger
Grade: 8  Project Type: Individual
Project Title: Does Texting Affect Driving Performance?
Ashland Christian, Ashland

Mr. Collin Johnson  
OAS AWARD Superior  
Sponsored Awards -if any

Mr. Collin Johnson  
Grade: 7  Project Type: Individual  
Project Title: How Important Is It to Keep Your Bike Tires Fully Inflated?

Ashland HS, Ashland

Ms Alaina Reed  
OAS AWARD Superior  
Sponsored Awards -if any

Ms Alaina Reed  
Grade: 10  Project Type: Individual  
Project Title: Identifying Hazardous Bacteria in Poultry and Ground Beef and Testing Most Effective Cleaning Methods

Ms Elyse Reed  
OAS AWARD Superior  
Sponsored Awards -if any

Ms Elyse Reed  
Grade: 10  Project Type: Individual  
Project Title: The Effects of Decomposing Polyethylene on Ocean Acidification

Ashland MS, Ashland

Mr Wyatt Bechtol  
OAS AWARD Superior  
Sponsored Awards -if any

Mr Wyatt Bechtol  
Grade: 7  Project Type: Individual  
Project Title: How do Elevators Affect Flight Duration on Paper Airplanes

Athens HS, The Plains

Ms Nora Anderson  
OAS AWARD Superior  
Sponsored Awards -if any

Ms Nora Anderson  
Grade: 10  Project Type: Individual  
Project Title: Barriers on Gender Entering STEM Careers

Mr Nicolas Barr  
OAS AWARD Superior  
Sponsored Awards -if any

Mr Nicolas Barr  
Grade: 9  Project Type: Individual  
Project Title: Effects of Parabolas on Solar Panels

Mr Samuel Joseph Dispenza  
OAS AWARD Excellent  
Sponsored Awards -if any

Mr Samuel Joseph Dispenza  
Grade: 11  Project Type: Individual  
Project Title: Comparing the Strength of modern connections to Miyadaiku and Sukiya-Daiku Joinery
## Athens HS, The Plains

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td>028 2ND</td>
</tr>
</tbody>
</table>

**Mr Jake McCarthy**  
Grade: 9  
Project Type: Individual  
Project Title: Which Type of Feedback Best Supports Athletic Performance?

**Ms Shifra R Narasimhan**  
Grade: 12  
Project Type: Individual  
Project Title: Computational Screening of Small Molecule Drugs for Antibacterial Agents that Target T-Box Riboswitches

**Ms Anru Tian**  
Grade: 12  
Project Type: Individual  
Project Title: Determining the Relationship of Starch and Gravitational Acceleration in Arabidopsis Gravitropism using MGSA (Multiple G-level Simulation Apparatus)

**Ms Zoe A Williams**  
Grade: 11  
Project Type: Individual  
Project Title: Goldilocks' Bassoon – When Is Conical Bore Just Right?

**Mr Alexander Bikowski**  
Grade: 10  
Project Type: Team  
Project Title: What is the most effective type of AI

**Mr. Kaeden Jonathan Saunders**  
Grade: 11  
Project Type: Team  
Project Title: What is the most effective type of AI

## Athens MS, Athens

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>033 2ND</td>
</tr>
</tbody>
</table>

**Mr Sam Christopher Bikowski**  
Grade: 8  
Project Type: Individual  
Project Title: The Effect of Caffeine on Soybean Plants

**Mr Luca Gagliano**  
Grade: 8  
Project Type: Individual  
Project Title: Airfoil Lift
<table>
<thead>
<tr>
<th>Location</th>
<th>Award</th>
<th>Sponsorship</th>
<th>Students</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athens MS, Athens</td>
<td>OAS AWARD</td>
<td>Sponsored Awards - if any</td>
<td>Mr. Joonwoo Park</td>
<td>Do Earthworms Have A Sense of Temperature?</td>
<td>7</td>
<td>Individual</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Excellent</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barnesville MS, Barnesville</td>
<td>OAS AWARD</td>
<td>Sponsored Awards - if any</td>
<td>Mr. Oscar Maxwell Uhalde</td>
<td>Which do Fruit Flies Prefer: Real or Artificial Applesauce?</td>
<td>7</td>
<td>Individual</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Excellent</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bath MS, Lima</td>
<td>OAS AWARD</td>
<td>Sponsored Awards - if any</td>
<td>Ms. Jenna Kaylee Duvall</td>
<td>Can Dog Drool Kill Germs?</td>
<td>7</td>
<td>Individual</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beachwood HS, Beachwood</td>
<td>OAS AWARD</td>
<td>Sponsored Awards - if any</td>
<td>Ms Kyla Fallis</td>
<td>Microbes at the Middle School</td>
<td>6</td>
<td>Individual</td>
<td>246 1ST</td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beaumont School, Cleveland Hts</td>
<td>OAS AWARD</td>
<td>Sponsored Awards - if any</td>
<td>Ms Jing-Jing Shen</td>
<td>Investigation of Thin-Film Silver as Top Electrode Material for Transparent Organic Solar Cells</td>
<td>12</td>
<td>Individual</td>
<td>058 3RD  106 3RD  134 3RD</td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OAS AWARD</td>
<td>Sponsored Awards - if any</td>
<td>Ms Grace Elhindi</td>
<td>The Effect of Mounting Angle and Convection Type on the Voltage Output of Photovoltaic Panels</td>
<td>11</td>
<td>Individual</td>
<td>205 1ST  217 1ST</td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OAS AWARD</td>
<td>Sponsored Awards - if any</td>
<td>Ms Audrey Margaret Zorman</td>
<td>Characterizing the Electrical Resistance of Electrically Conductive Fabrics for Wearable Electronics</td>
<td>10</td>
<td>Individual</td>
<td>059 1st</td>
</tr>
</tbody>
</table>
Beaver Local HS, Lisbon

<table>
<thead>
<tr>
<th>Name</th>
<th>School</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsorship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Isabel Ann Bryer</td>
<td>OAS AWARD</td>
<td>10</td>
<td>Team</td>
<td>Does Age or Gender Impact the Stroop Effect?</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Annie Grace Griggs</td>
<td>OAS AWARD</td>
<td>10</td>
<td>Team</td>
<td>Does Age or Gender Impact the Stroop Effect?</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Mr. Orion Joseph Kolkowski</td>
<td>OAS AWARD</td>
<td>10</td>
<td>Team</td>
<td>How the Camber of an Airfoil Affects Lift-to-Drag Ratios</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Mr. Kadin James Wolfe</td>
<td>OAS AWARD</td>
<td>10</td>
<td>Team</td>
<td>How the Camber of an Airfoil Affects Lift-to-Drag Ratios</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>

Beavercreek HS, Beavercreek

<table>
<thead>
<tr>
<th>Name</th>
<th>School</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsorship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr Prathik A Chakravarthy</td>
<td>OAS AWARD</td>
<td>12</td>
<td>Team</td>
<td>Diagnosis of Acute Myeloid Leukemia using Gene Expression Based Classifier</td>
<td>Superior</td>
<td>159 1ST 253</td>
</tr>
<tr>
<td>Mr Sudarshan V Chakravarthy</td>
<td>OAS AWARD</td>
<td>11</td>
<td>Team</td>
<td>Diagnosis of Acute Myeloid Leukemia using Gene Expression Based Classifier</td>
<td>Superior</td>
<td>159 1ST 253</td>
</tr>
</tbody>
</table>

Bell Creek ES, Bellbrook

<table>
<thead>
<tr>
<th>Name</th>
<th>School</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsorship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Milly Atherton</td>
<td>OAS AWARD</td>
<td>5</td>
<td>Individual</td>
<td>Heart rates</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Mia Byarlay</td>
<td>OAS AWARD</td>
<td>5</td>
<td>Individual</td>
<td>How do dogs respond to sound?</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>
Bell Creek ES, Bellbrook

OAS AWARD

Mr. Tyler Feix
Grade: 5  Project Type: Team
Project Title: Stop That Brown

Ms. Emily Ann Rodenroth
Grade: 5  Project Type: Team
Project Title: Stop That Brown

OAS AWARD

Bellbrook HS, Bellbrook

OAS AWARD

Ms Dasha Crocker
Grade: 10  Project Type: Individual
Project Title: Fixing Fixtures: Refocusing Our Light

OAS AWARD

Mr Kai Delsing
Grade: 10  Project Type: Individual
Project Title: Revenge of the Radar

OAS AWARD

Ms Kaori Delsing
Grade: 8  Project Type: Individual
Project Title: Going Green on the Red Planet

Bellbrook MS, Bellbrook

OAS AWARD

Mr. Garrett James Becker
Grade: 7  Project Type: Individual
Project Title: The Garden Protector

OAS AWARD

Mr. Mikuya Ford
Grade: 7  Project Type: Individual
Project Title: The North wind and the Sun

OAS AWARD

Ms. Sofie Goodrich
Grade: 7  Project Type: Individual
Project Title: The nose knows smell, but what about taste?
Bellbrook MS, Bellbrook

Mr Nikhil Mall
Grade: 8  Project Type: Individual
Project Title: What makes ice melt the fastest?

OAS AWARD Excellent

Mr. Ethan Barry Newell
Grade: 7  Project Type: Individual
Project Title: What wrapping prevents the deterioration of strawberries without the use of refrigeration the best.

OAS AWARD Excellent

Mr. Wesley Peters
Grade: 7  Project Type: Individual
Project Title: Programmed Plant Growth

OAS AWARD Excellent

Mr. Alexander Clay Pittman
Grade: 7  Project Type: Individual
Project Title: Is Bigger Always Better

OAS AWARD Superior

Mr. Scott Porter
Grade: 7  Project Type: Individual
Project Title: Automatic Toiletpaper Changer

OAS AWARD Superior 250

Mr. Ethan Colton Smith-Rodriguez
Grade: 7  Project Type: Individual
Project Title: Does Dog Saliva Minimize or Stop Bacterial Growth?

OAS AWARD Superior

Benjamin Logan HS, Bellefontaine

Ms. Winifred Mae Bodin
Grade: 5  Project Type: Individual
Project Title: Biological and Chemical Assessment on the Mad River for One Year

OAS AWARD Excellent 070 HM 079 2ND

Mr Chance Frater
Grade: 11  Project Type: Individual
Project Title: Can An Ancient Remedy Be Used On A Modern Bacteria

OAS AWARD Superior 145 1ST 244 SCH
## State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

### Benjamin Logan MS, Bellefontaine

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>028 2ND</td>
</tr>
</tbody>
</table>

**Project Title:** Food-Networking Physarum Polycephalum

**Ms. Breanna Heath**

- **Grade:** 12
- **Project Type:** Team

### Mr. Bryson A Tipton

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>028 2ND</td>
</tr>
</tbody>
</table>

**Project Title:** Food-Networking Physarum Polycephalum

### Bethel HS, Tipp City

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td>192 HM</td>
</tr>
</tbody>
</table>

**Project Title:** Arduino and RFID: Finding Objects

**Ms Lisa Sebastian**

- **Grade:** 10
- **Project Type:** Individual

### Bethel JS, Tipp City

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td>028 2ND</td>
</tr>
</tbody>
</table>

**Project Title:** How Color Affects Memory

**Ms. Tiffany Moore**

- **Grade:** 6
- **Project Type:** Individual

### Ms. Julie Sue Sebastian

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td></td>
</tr>
</tbody>
</table>

**Project Title:** How Ethyl Alcohol Affects Germs

### Ms Allison Cartwright

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td></td>
</tr>
</tbody>
</table>

**Project Title:** Aspartame Academics

### Ms Jackie Harris

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td></td>
</tr>
</tbody>
</table>

**Project Title:** Music to our Ears
<table>
<thead>
<tr>
<th>School</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Award Level</th>
<th>Award Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bethel JS, Tipp City</td>
<td>Ms Jasmine Harris, <em>Music to our Ears</em></td>
<td>7</td>
<td>Team</td>
<td>Superior</td>
<td>Sponsored Awards - if any</td>
</tr>
<tr>
<td></td>
<td>Ms. Jewell Evelyn Tyler, <em>Aspartame Academics</em></td>
<td>7</td>
<td>Team</td>
<td>Superior</td>
<td>Sponsored Awards - if any</td>
</tr>
<tr>
<td>Big Walnut Intermediate, Sunbury</td>
<td>Ms. Kylie Cox, <em>The Five Second Rule</em></td>
<td>5</td>
<td>Individual</td>
<td>Excellent</td>
<td>Sponsored Awards - if any</td>
</tr>
<tr>
<td></td>
<td>Ms. Grace Dorsten, <em>Which One Has More Bacteria&lt; A Bathroom Doorknob or Bedroom Doorknob?</em></td>
<td>5</td>
<td>Individual</td>
<td>Excellent</td>
<td>Sponsored Awards - if any</td>
</tr>
<tr>
<td></td>
<td>Ms. Savannah Lynn Durheim, <em>It's time to BAKE!</em></td>
<td>5</td>
<td>Individual</td>
<td>Excellent</td>
<td>Sponsored Awards - if any</td>
</tr>
<tr>
<td></td>
<td>Mr. Jacoby M Hoehn, <em>5 Second Rule: Fact or Fiction</em></td>
<td>5</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards - if any</td>
</tr>
<tr>
<td></td>
<td>Ms. Leah Hohenbrink, <em>Drawing It Up</em></td>
<td>5</td>
<td>Individual</td>
<td>Superior</td>
<td>240 SCH</td>
</tr>
<tr>
<td></td>
<td>Ms. Lily Hohenbrink, <em>Floating Down</em></td>
<td>5</td>
<td>Individual</td>
<td>Excellent</td>
<td>Sponsored Awards - if any</td>
</tr>
</tbody>
</table>
### Big Walnut Intermediate, Sunbury

<table>
<thead>
<tr>
<th>Student Name</th>
<th>OAS AWARD Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Sahana Katta</td>
<td>Superior</td>
<td>Which Battery Brand Will Last The Longest?</td>
</tr>
<tr>
<td>Grade: 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Type: Individual</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Name</th>
<th>OAS AWARD Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Sydney Jade LaVrar</td>
<td>Superior</td>
<td>How do different surfaces affect the speed of a toy model car?</td>
</tr>
<tr>
<td>Grade: 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Type: Individual</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Name</th>
<th>OAS AWARD Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Kendall Sleight Leff</td>
<td>Superior</td>
<td>Bouncing High</td>
</tr>
<tr>
<td>Grade: 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Type: Individual</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Name</th>
<th>OAS AWARD Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Julianna Faye Maynard</td>
<td>Excellent</td>
<td>Which Water Choice is Best for Plants?</td>
</tr>
<tr>
<td>Grade: 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Type: Individual</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Name</th>
<th>OAS AWARD Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Molly Ralston</td>
<td>Superior</td>
<td>Disappearing Gummy Bears</td>
</tr>
<tr>
<td>Grade: 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Type: Individual</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Name</th>
<th>OAS AWARD Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Anna Thornhill</td>
<td>Excellent</td>
<td>Which type of ice cream melts the fastest</td>
</tr>
<tr>
<td>Grade: 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Type: Individual</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Name</th>
<th>OAS AWARD Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Ava Thornhill</td>
<td>Superior</td>
<td>What Process Keeps the Nail Looking Best the Longest Without Chipping?</td>
</tr>
<tr>
<td>Grade: 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Type: Individual</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Big Walnut MS, Sunbury

<table>
<thead>
<tr>
<th>Student Name</th>
<th>OAS AWARD Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Adeline Butler</td>
<td>Superior</td>
<td>The Effect of Mycorrhizal Fungi on Drought Tolerance in Vegetable Transplants</td>
</tr>
<tr>
<td>Grade: 7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Type: Individual</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Big Walnut MS, Sunbury

<table>
<thead>
<tr>
<th>Ms. Kaylyn Huber</th>
<th>OAS AWARD: Excellent</th>
<th>Sponsor: The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 5</td>
<td>Project Type: Individual</td>
<td>Project Title: Spinach Plants + Colored Lights = Developed Enough?</td>
</tr>
</tbody>
</table>

### Birchwood School, Cleveland

<table>
<thead>
<tr>
<th>Mr John Shin</th>
<th>OAS AWARD: Excellent</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 8</td>
<td>Project Type: Individual</td>
<td>Project Title: Water Filtration using Graphene Nanotechnology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mr Jaden Stainforth</th>
<th>OAS AWARD: Superior</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 8</td>
<td>Project Type: Individual</td>
<td>Project Title: Maglev Technology for Aircraft Liftoff</td>
</tr>
</tbody>
</table>

### Bishop Fenwick, Zanesville

<table>
<thead>
<tr>
<th>Ms. Maddie Bernett</th>
<th>OAS AWARD: Superior</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 7</td>
<td>Project Type: Individual</td>
<td>Project Title: Which Chocolate Melts the Fastest?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ms Norah Kline</th>
<th>OAS AWARD: Superior</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 7</td>
<td>Project Type: Individual</td>
<td>Project Title: The Fate of Sulfate in Different Lakes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ms Drayton Elizabeth Willey</th>
<th>OAS AWARD: Superior</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 8</td>
<td>Project Type: Individual</td>
<td>Project Title: Miscanthus x giganteus Acid Reducer</td>
</tr>
</tbody>
</table>

### Bishop Flaget, Chillicothe

<table>
<thead>
<tr>
<th>Ms Avery Brown</th>
<th>OAS AWARD: Superior</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 8</td>
<td>Project Type: Individual</td>
<td>Project Title: Which Red Wine Contains the Highest Level of Polyphenol</td>
</tr>
</tbody>
</table>

---

**State Science Day - May 11, 2019**

Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority

Hosted by The Ohio State University
<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Mason Andrew Brown</td>
<td>6</td>
<td>Individual</td>
<td>Does Air Temperature Affect Lung Strength</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Ms. Isabella Flores</td>
<td>6</td>
<td>Individual</td>
<td>Which tadpole will grow the fastest the one eating Deli ham or Iceberg lettuce</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Mr. Brigham McDaniel</td>
<td>6</td>
<td>Individual</td>
<td>Does mint gum really cool a person's mouth?</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Ms. Molly Prochaska</td>
<td>7</td>
<td>Individual</td>
<td>Bacterial Growth on Makeup Brushes High-end vs. Drugstore</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Ms. Mikayla Spaulding</td>
<td>8</td>
<td>Individual</td>
<td>Homemade V.S. Name Brand Electrolyte Replacers</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Bishop John King Mussio</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central ES, Steubenville</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mr. Andrew James Rohde</td>
<td>6</td>
<td>Individual</td>
<td>Can Abrasion Increase Skin Turnover Rate?</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Ms. Alaina Noel Vrable</td>
<td>6</td>
<td>Individual</td>
<td>Does the Chemical Composition of Glow Paint and Glow Powder Affect the Length of the Glow Time and the Brightness</td>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>
## Bishop John King Mussio Central JS, Steubenville

<table>
<thead>
<tr>
<th>Name</th>
<th>Award</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Daniel Joseph Bolster</td>
<td>OAS AWARD</td>
<td>7</td>
<td>Individual</td>
<td>How Does Shape Affect the Strength of a Weight-Bearing Cantilever?</td>
</tr>
</tbody>
</table>

## Bishop Leibold E & W Campus, Dayton

<table>
<thead>
<tr>
<th>Name</th>
<th>Award</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Natalie Martha Arwine</td>
<td>OAS AWARD</td>
<td>7</td>
<td>Individual</td>
<td>Music in the Mind</td>
</tr>
<tr>
<td>Mr. Maxwell Baker</td>
<td>OAS AWARD</td>
<td>7</td>
<td>Individual</td>
<td>Paw Preference in Dogs</td>
</tr>
<tr>
<td>Ms. Kylie Jackson</td>
<td>Sponsored Awards -if any</td>
<td>8</td>
<td>Individual</td>
<td>Banana in the Ripe State</td>
</tr>
<tr>
<td>Ms. Kennedy Grace McGillivary</td>
<td>OAS AWARD</td>
<td>7</td>
<td>Individual</td>
<td>Ice, Ice, Baby</td>
</tr>
<tr>
<td>Ms Isabella Marie Miller</td>
<td>OAS AWARD</td>
<td>8</td>
<td>Individual</td>
<td>Earthworms: The Silent Heroes of Soil</td>
</tr>
<tr>
<td>School</td>
<td>Project Title</td>
<td>Grade</td>
<td>Project Type</td>
<td>OAS Award</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>-------</td>
<td>--------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Bishop Leibold E &amp; W Campus, Dayton</td>
<td>The science of monsters</td>
<td>7</td>
<td>Individual</td>
<td>Superior</td>
</tr>
<tr>
<td>Ms. Brooke E Roddy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bishop Leibold E &amp; W Campus, Dayton</td>
<td>What's In Your Water Bottle?</td>
<td>7</td>
<td>Individual</td>
<td>Excellent</td>
</tr>
<tr>
<td>Ms. Kristin Elizabeth Grace Wright</td>
<td></td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blessed Sacrament, Newark</td>
<td>Electric Light</td>
<td>5</td>
<td>Individual</td>
<td>Excellent</td>
</tr>
<tr>
<td>Ms. Elaine C Caton</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blessed Sacrament, Newark</td>
<td>Sunscreen Effectiveness</td>
<td>6</td>
<td>Individual</td>
<td>Superior</td>
</tr>
<tr>
<td>Ms. Eryn Gail McLain</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bloom Carroll HS, Carroll</td>
<td>The Effects of Non-Processed and Processed Orange Juice on Teeth</td>
<td>9</td>
<td>Individual</td>
<td>Excellent</td>
</tr>
<tr>
<td>Ms Emmi Brengman</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bloom Carroll HS, Carroll</td>
<td>Can the Mbira, an African Musical Instrument, Distinguish Medication Type?</td>
<td>9</td>
<td>Individual</td>
<td>Superior</td>
</tr>
<tr>
<td>Ms Allie Carter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bloom Carroll HS, Carroll</td>
<td>The Effect Of Colloidal Silver on E.coli</td>
<td>11</td>
<td>Individual</td>
<td>Superior</td>
</tr>
<tr>
<td>Ms Abigail Esbenshade</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bloom Carroll HS, Carroll</td>
<td>How Does PSI Effect Concussion Rates Through Force?</td>
<td>9</td>
<td>Individual</td>
<td>Superior</td>
</tr>
<tr>
<td>Ms Elayna Brooke Foor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority

Hosted by The Ohio State University
Bloom Carroll HS, Carroll

Ms Emily A. Kruse

OAS AWARD
Superior

Sponsored Awards -if any
019 SCH 061 1ST 080 1st 086 2ND 090 1ST 091 1ST

Grade: 10  Project Type: Individual
Project Title: Testing Local Water Sources for Microplastic Pollution and its Effects on Agriculture

Mr Joseph D Kruse

OAS AWARD
Superior

Sponsored Awards -if any

Grade: 12  Project Type: Individual
Project Title: Microcomputer Seismometers as a Security System

Ms. Makayla Lerner

OAS AWARD
Superior

Sponsored Awards -if any
019 SCH 061 3RD 080 3RD 139 1ST

Grade: 12  Project Type: Individual
Project Title: Bio-Stimulation of Oleophilic Microbes for Oil Spill Bioremediation

Ms Abigail Lister

OAS AWARD
Excellent

Sponsored Awards -if any
050 3RD

Grade: 9  Project Type: Individual
Project Title: The Effect of FDA Recommended Storage Temperatures in Delaying the Onset of Microbial Rancidity in Beef

Ms Cassidy G Smith

OAS AWARD
Superior

Sponsored Awards -if any
080 HM

Grade: 11  Project Type: Individual
Project Title: The Effect of Tenebrio molitor and Galleria mellonella on EPS Biodegradation

Ms. Charis Sophia Stadler

OAS AWARD
Good

Sponsored Awards -if any

Grade: 9  Project Type: Individual
Project Title: Foam Fire Extinguisher Mixture Effect on Seed Germination

Mr Ian Wolfe

OAS AWARD
Superior

Sponsored Awards -if any

Grade: 11  Project Type: Individual
Project Title: The Effects of Winglets on Drag

Ms. Lauren Elizabeth Orzechowski

OAS AWARD
Excellent

Sponsored Awards -if any

Grade: 11  Project Type: Team
Project Title: How the Kidneys use Osmoregulation in the Loop of Henle
Bloom Carroll HS, Carroll

Ms. Taylor Mae Redfern

OAS AWARD
Excellent

Sponsored Awards -if any

Grade: 11  Project Type: Team
Project Title: How the Kidneys use Osmoregulation in the Loop of Henle

Bloom Carroll MS, Carroll

Ms. Kennedy Lane Brehm

OAS AWARD
Excellent

Sponsored Awards -if any

Grade: 8  Project Type: Individual
Project Title: Reducing Bacteria in the Kitchen

Ms. Lilian George

OAS AWARD
Superior

Sponsored Awards -if any

Grade: 7  Project Type: Individual
Project Title: Don't Drink the Water

Ms. Londyn Rose Herbert

OAS AWARD
Superior

Sponsored Awards -if any

Grade: 8  Project Type: Individual
Project Title: The Effect of Phosphorus on Algal Growth

Ms. Grace Kruse

OAS AWARD
Superior

Sponsored Awards -if any

Grade: 8  Project Type: Individual
Project Title: Saliva as a Treatment for Acne Vulgaris

Ms. Claire Elizabeth Loeffler

OAS AWARD
Superior

139 2ND  108 EXC  246 1ST  217 2ND  250

Sponsored Awards -if any

Grade: 8  Project Type: Individual
Project Title: Biofuels vs. Conventional fuels

Ms. Emily Plageman

OAS AWARD
Excellent

Sponsored Awards -if any

Grade: 8  Project Type: Individual
Project Title: Arvcf Maintains Cell Shape, Aligns Cells, and Controls the Transparency of the Lens

Ms. Emily Swope

OAS AWARD
Superior

018 3RD  246 1ST  250

Sponsored Awards -if any

Grade: 8  Project Type: Individual
Project Title: The Effect of Seed Storage Conditions on the Drought-Tolerance of Soybean Plants
Bloom Carroll MS, Carroll

OAS AWARD Excellent
Sponsored Awards -if any

Ms. Ashley Robb
Grade: 8        Project Type: Team
Project Title: What Types of Wood Prevent Mold Growth?

OAS AWARD Excellent
Sponsored Awards -if any

Ms. Cheyenne Wentz
Grade: 8        Project Type: Team
Project Title: What Types of Wood Prevent Mold Growth?

Bounty Collegium, Sylvania

OAS AWARD Excellent
Sponsored Awards -if any

Ms Noor Alexandria Abukaram
Grade: 10       Project Type: Individual
Project Title: Camouflage Recognition

OAS AWARD Superior
Sponsored Awards -if any

Ms Synene Maria Abukaram
Grade: 11       Project Type: Individual
Project Title: Inhibition of Staphylococcus aureus by Padding Material

OAS AWARD Excellent
Sponsored Awards -if any

Mr. Khalil Al Rayyes
Grade: 11       Project Type: Individual
Project Title: Bridging the Gap between Music and health

OAS AWARD Superior
Sponsored Awards -if any

Mr Abdulrahman Elhady
Grade: 11       Project Type: Individual
Project Title: Novel Recreational Ball Design

OAS AWARD Excellent
Sponsored Awards -if any

Mr. Abdullah Muhammed Nasser
Grade: 8        Project Type: Individual
Project Title: Are Trees Warm Blooded or Cold Blooded

OAS AWARD 159 1ST
Sponsored Awards -if any

Ms Rayanne Mustapha
Grade: 9        Project Type: Individual
Project Title: Novel Solutions to Increase Protection in Contact Sports
### Bounty Collegium, Sylvania

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Sundus Mustapha</td>
<td>11</td>
<td>Individual</td>
<td>Determining the Voltage Necessary to Fulfill Oxygen Mask Standards Using Electrolysis</td>
</tr>
</tbody>
</table>

### Bowling Green HS, Bowling Green

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Samantha Leeann Coddington</td>
<td>9</td>
<td>Individual</td>
<td>Can Plastic be a viable source of energy</td>
</tr>
<tr>
<td>Mr. Gabriel Adam Mott</td>
<td>9</td>
<td>Individual</td>
<td>The Advantages of Beeswax, Soy Wax, and Paraffin Wax for the Purpose of Candle Making</td>
</tr>
<tr>
<td>Mr. Aaron Michael Partin</td>
<td>9</td>
<td>Individual</td>
<td>The Impact of External Feeding on Sinularia flexibilis Growth</td>
</tr>
</tbody>
</table>

### Brookville HS, Brookville

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Mikaela Salonga Guillen</td>
<td>11</td>
<td>Individual</td>
<td>Can Body Heat Generate Electricity?</td>
</tr>
</tbody>
</table>

### Buckeye Valley Local MS, Delaware

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. William E Allen</td>
<td>6</td>
<td>Individual</td>
<td>Resistance and Resistivity of Metals</td>
</tr>
<tr>
<td>Ms. Phebe J. George</td>
<td>7</td>
<td>Individual</td>
<td>Pencil Hardness</td>
</tr>
</tbody>
</table>
**State Science Day - May 11, 2019**
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

### Buckeye Valley Local MS, Delaware

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Isaac Paul King</td>
<td>Excellent</td>
<td>090 2ND</td>
</tr>
<tr>
<td>Grade: 7</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>How does Urbanization or Land Development Affect Runoff?</td>
<td></td>
</tr>
</tbody>
</table>

### Bunsold MS, Marysville

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Jaden E Rohrs</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 8</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Fungus Fighters: Which antifungal treatment works the best?</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Reya Singh</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 8</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Chop Chop! Do Lefties Have Faster Reaction Times Than Righties?</td>
<td></td>
</tr>
</tbody>
</table>

### Butler MS, Arcanum

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Raymond Brothers</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 6</td>
<td>Project Type: Team</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Which Bat hits the furthest</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Mackenzie Cantrell</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 6</td>
<td>Project Type: Team</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Mberry Test on Different Age Subjects</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Landon Flatter</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 6</td>
<td>Project Type: Team</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Which Bat hits the furthest</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Hannah Lynn Kendig</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 7</td>
<td>Project Type: Team</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Oh Snap!</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Carley Rieman</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 7</td>
<td>Project Type: Team</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Oh Snap!</td>
<td></td>
</tr>
</tbody>
</table>
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Butler MS, Arcanum
Ms. Emma Rogers
Grade: 6  Project Type: Team
Project Title: Mberry Test on Different Age Subjects

Canfield HS, Canfield
Ms Aurora D Fares
Grade: 10  Project Type: Individual
Project Title: Electric Flux Density: Electrode Shape Determines Outcome - Get The Point!

Carroll HS, Dayton
Mr Kevin Agnew
Grade: 10  Project Type: Individual
Project Title: Robotic Cube for the Hand Mobility Impaired

Mr Grant Arnold
Grade: 11  Project Type: Individual
Project Title: Nutrients in Glycine max amidst Temperature Increase

Mr Ryan Ballou
Grade: 10  Project Type: Individual
Project Title: Improved Efficacy of Sulfadimethoxine with Herbal Supplements to inhibit the Growth of Paramecium aurelia

Ms Olivia Bartlett
Grade: 11  Project Type: Individual
Project Title: Reducing the Flammability of Paint using Borax and Phosphoric Acid

Mr. Trace Bauersfeld
Grade: 9  Project Type: Individual
Project Title: The Effects of Artificial Fertilizers Versus Organic Fertilizers on Short-Term and Growth Rate of Panicum virgatum

Ms Olivia Joan Bistrek
Grade: 11  Project Type: Individual
Project Title: Effectiveness of a Biosand Water Filter: Phase II
### State Science Day - May 11, 2019

Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority

Hosted by The Ohio State University

<table>
<thead>
<tr>
<th>School</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carroll HS, Dayton</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ms. Megan Camille Caldwell</td>
<td>Superior</td>
<td>070 HM 249 1ST</td>
</tr>
<tr>
<td>Grade: 11</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>The Effects of Sunscreen on Oyster Shells</td>
<td></td>
</tr>
<tr>
<td>Ms. Kelly Dong</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 9</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Effects of Pharmaceuticals on Lactuca sativa</td>
<td></td>
</tr>
<tr>
<td>Ms Ellie Erich</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 10</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>The Effect of Acoustic Waves on Glycine Max</td>
<td></td>
</tr>
<tr>
<td>Ms Megan Elizabeth Lencke</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 11</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>The Effectiveness of Sunscreen in Different Types of Water</td>
<td></td>
</tr>
<tr>
<td>Mr. Shengyuan Lu</td>
<td>Superior</td>
<td>134 2ND</td>
</tr>
<tr>
<td>Grade: 11</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Building A Chemistry Card Game In The Form Of A Mobile Application</td>
<td></td>
</tr>
<tr>
<td>Ms Ashley Marie Martin</td>
<td>Superior</td>
<td>221 HM</td>
</tr>
<tr>
<td>Grade: 11</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Optimizing a Brain-Machine-Interface to Create Artworks using EEG Technology</td>
<td></td>
</tr>
<tr>
<td>Mr. Zachary David Merz</td>
<td>Excellent</td>
<td>058 1ST 106 1ST</td>
</tr>
<tr>
<td>Grade: 11</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Strengths of 3D Printed Composites</td>
<td></td>
</tr>
<tr>
<td>Mr. Nick James Miller</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 10</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Optimizing Growth Rate of Glycine max in a Hydroponics system</td>
<td></td>
</tr>
</tbody>
</table>
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Carroll HS, Dayton

Mr Will Thomas Moddeman
Grade: 11  Project Type: Individual
Project Title: The Effect of Texting and Driving on Teen Drivers
OAS AWARD
Excellent
Sponsored Awards -if any
023 1ST

Mr. Cameron Ryan Neidhard
Grade: 10  Project Type: Individual
Project Title: Effect of Bilingualism on Stroop Interference
OAS AWARD
Superior
Sponsored Awards -if any
059 1ST

Mr. Joshua Daniel Orlett
Grade: 10  Project Type: Individual
Project Title: Strengthening of a Low E String
OAS AWARD
Superior
Sponsored Awards -if any

Mr. Andrew Douglas Osgood
Grade: 9  Project Type: Individual
Project Title: Electrostimulation of Chlorella vulgaris Algae to Produce Beta Carotene
OAS AWARD
Excellent
Sponsored Awards -if any

Mr. Matt Polanka
Grade: 11  Project Type: Individual
Project Title: Maximizing Aerodynamic Properties of Airfoils in a Low Speed Wind Tunnel
OAS AWARD
Excellent
Sponsored Awards -if any

Ms Corrine Ruble
Grade: 11  Project Type: Individual
Project Title: The Effect of Apple Cider Vinegar on Fasted and Postprandial Glucose
OAS AWARD
Excellent
Sponsored Awards -if any

Ms Madeleine Sanders
Grade: 11  Project Type: Individual
Project Title: Mitigating Groundwater Pollution Through the Use of Polyphenolic Compounds in Fruit Waste
OAS AWARD
Superior
Sponsored Awards -if any
080 2ND

Ms Brittney Sargent
Grade: 11  Project Type: Individual
Project Title: The Effects of Irradiated Tagetes Erecta Seeds on Pest Control
OAS AWARD
Superior
Sponsored Awards -if any
249 2ND
<table>
<thead>
<tr>
<th>School</th>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carroll HS, Dayton</td>
<td>Ms Caroline Elizabeth Wittman</td>
<td>10</td>
<td>Individual</td>
<td>Brain Lateralization in Canis familiaris</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td>Ms. Katie Jane Wittman</td>
<td>10</td>
<td>Individual</td>
<td>Effect of Nanosilver on Daphnia magna</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Catholic Central JS/HS, Springfield</td>
<td>Mr Will Baron</td>
<td>8</td>
<td>Individual</td>
<td>A Stealthy Digital TV Antenna</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td>Ms. Ellarie Visser</td>
<td>5</td>
<td>Individual</td>
<td>How Common is 1??</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Chesapeake MS, Chesapeake</td>
<td>Mr Dawson Forbush</td>
<td>8</td>
<td>Individual</td>
<td>Weighing in on Surface Tension</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td>Ms. Cecilia raenan Haldeman</td>
<td>6</td>
<td>Individual</td>
<td>SODA BOTTLE MUSIC</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td>Ms Leah Faye Shields</td>
<td>8</td>
<td>Individual</td>
<td>Do Opposites Attract?</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>
### Circleville MS, Circleville

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>OAS Award</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Sterlin Wayne Mullins</td>
<td>7</td>
<td>Individual</td>
<td>How does the depth of soybeans affect their growth?</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Mr. William Slater Search</td>
<td>7</td>
<td>Individual</td>
<td>What readily available compounds produce the most amount of voltage in a battery?</td>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>

### Columbia HS, Columbia Station

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>OAS Award</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Madeleine Finton</td>
<td>9</td>
<td>Individual</td>
<td>Choosing Fruits Wisely</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Mr. Landon David Hunt</td>
<td>10</td>
<td>Individual</td>
<td>Investigating the Efficiency of Slime Mold as a Maze Solver</td>
<td>Superior</td>
<td></td>
</tr>
</tbody>
</table>

### Columbia MS, Columbia Station

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>OAS Award</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Selah Reese Davison</td>
<td>5</td>
<td>Individual</td>
<td>Do Left Handers Have Better Memory Than Right Handers</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Ms Samantha Geiger</td>
<td>7</td>
<td>Individual</td>
<td>Aerobic vs. Anaerobic Decomposition</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Ms Kaitlyn Miller</td>
<td>6</td>
<td>Individual</td>
<td>Aquaponics vs. Potting Soil</td>
<td>Superior</td>
<td>246 1ST</td>
</tr>
<tr>
<td>Ms. Maggie Rain Murray</td>
<td>6</td>
<td>Individual</td>
<td>Sharks Vs. Global Warming</td>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>
Columbia MS, Columbia Station

Ms. Addison Stair

Grade: 6  Project Type: Individual
Project Title: Does peppermint effect your memorization?

OAS AWARD  Sponsored Awards -if any
Superior

Columbian HS, Tiffin

Ms. Jorie Fawcett

Grade: 10  Project Type: Individual
Project Title: How Much Water Can Pass Through Alternative Straws Before They Deteriorate

OAS AWARD  Sponsored Awards -if any
Excellent

Mr. Corbin R Hite

Grade: 11  Project Type: Individual
Project Title: The Dissolution Rates of Name Brand and Generic NSAIDS

OAS AWARD  Sponsored Awards -if any
Superior  148 2ND

Ms. Jocelyn Marie Hardina

Grade: 11  Project Type: Team
Project Title: The Effect of Density and Viscosity of Slime on Bullet Resistance

OAS AWARD  Sponsored Awards -if any
Excellent  133 1ST

Ms. Sierra Harmony Steinmetz

Grade: 11  Project Type: Team
Project Title: The Effect of Density and Viscosity of Slime on Bullet Resistance

OAS AWARD  Sponsored Awards -if any
Excellent  133 1ST

Columbus Academy, Gahanna

Mr. Aniv Gahanna Ray

Grade: 11  Project Type: Individual
Project Title: Development of Novel Therapeutics for Skin Cancer by Targeting Genes Identified by Bioinformatics Analysis.

OAS AWARD  Sponsored Awards -if any
Superior  148 1ST

Conesville ES, Conesville

Ms. Rebecca Durben

Grade: 6  Project Type: Individual
Project Title: The Science Behind Tsunamis: Study the Effect of Water Depth on Wave Velocity

OAS AWARD  Sponsored Awards -if any
Excellent
### Conesville ES, Conesville

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>OAS Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Nariah Fox</td>
<td>Mag-nificent Breakfast Cereal</td>
<td>6</td>
<td>Individual</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Ava McFarland</td>
<td>Distracted Reading : Kids vs Adults</td>
<td>6</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Lexsey Newell</td>
<td>Turning Milk Into Plastic</td>
<td>6</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Olivea Sammons</td>
<td>How Does Age Affect Memory?</td>
<td>6</td>
<td>Individual</td>
<td>No Show</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Ashlyn Tumblin</td>
<td>Horses: Does Height Matter?</td>
<td>6</td>
<td>Individual</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Taryn Tumblin</td>
<td>Horse’s Shoulder Angle: Does It Affect Speed?</td>
<td>6</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Kyndal Wesney</td>
<td>Eyes and Ears: Do They Affect Balance?</td>
<td>6</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>

### Coschocon ES, Coshocton

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>OAS Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Ashley Bryant</td>
<td>Sweet Teeth</td>
<td>6</td>
<td>Individual</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Coy MS, Beavercreek

Ms. Eleanor Hall
Grade: 6  Project Type: Individual
Project Title: LITE

OAS AWARD  Excellent
Sponsored Awards -if any

Coy MS, Beavercreek

Ms. Alexis A Brooking
Grade: 6  Project Type: Team
Project Title: Kids vs. Adults Who is the Language Master?

OAS AWARD  Excellent  028 1ST
Sponsored Awards -if any

Cristo Rey Columbus HS, Columbus

Ms. Kendall M Ohlemacher
Grade: 6  Project Type: Team
Project Title: Kids vs. Adults Who is the Language Master?

OAS AWARD  Excellent  028 1ST
Sponsored Awards -if any

David H Ponitz Career Technology Center, Dayton

Mr. Mamoudou Gando Bah
Grade: 11  Project Type: Individual
Project Title: Wind Powered Car; Applying Theoretical Applications of an Alternative Wind Energy Source in Vehicles to Reduce the Rise of Global Climate Change

OAS AWARD  Superior
Sponsored Awards -if any

Dawson-Bryant MS, Coal Grove

Ms. Jayden Lannise Carpenter
Grade: 11  Project Type: Individual
Project Title: The Analysis of Fingerprint Reagents on Porous and Non Porous Surfaces

OAS AWARD  Excellent
Sponsored Awards -if any

Dawson-Bryant MS, Coal Grove

Ms. Nicole Awino Owino
Grade: 10  Project Type: Individual
Project Title: The Isolation of Genomic DNA from Gallus gallus domesticus

OAS AWARD  No Show
Sponsored Awards -if any

David H Ponitz Career Technology Center, Dayton

Ms. Avril Lynn Klaiber
Grade: 6  Project Type: Individual
Project Title: Which Brand of Yogurt Has The Most Bacteria

OAS AWARD  Excellent
Sponsored Awards -if any
### State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

<table>
<thead>
<tr>
<th>School</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dawson-Bryant MS, Coal Grove</td>
<td>Does Corn Syrup Affect the Making of Rock Candy?</td>
<td>6</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Dayton Christian School, Miamisburg</td>
<td>Prosthetic Engineering</td>
<td>11</td>
<td>Individual</td>
<td>Superior</td>
<td>192 HM</td>
</tr>
<tr>
<td></td>
<td>Instant Cold Pack Chemistry</td>
<td>9</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lipstick, Anyone?</td>
<td>8</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Are You Aware of Your Learning Style?</td>
<td>11</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The Validity of Antibacterial Household Cleaners</td>
<td>9</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Perfect Propellers</td>
<td>9</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Don't Bring Me Down</td>
<td>11</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>School</td>
<td>Name</td>
<td>Grade</td>
<td>Project Type</td>
<td>Project Title</td>
<td>OAS Award</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>--------------------------</td>
<td>-------</td>
<td>------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Dayton Christian School, Miamisburg</td>
<td>Mr. Nathaniel Kevin Matthew</td>
<td>9</td>
<td>Individual</td>
<td>Choosing the Right Roof</td>
<td>Excellent</td>
</tr>
<tr>
<td></td>
<td>Mr. Luke McCarty</td>
<td>8</td>
<td>Individual</td>
<td>Equally &quot;Yolked&quot;?</td>
<td>Excellent</td>
</tr>
<tr>
<td>Dayton Regional STEM School, Kettering</td>
<td>Mr. Johnny Xing Chen</td>
<td>7</td>
<td>Individual</td>
<td>Moisturizers: Which One Works Best?</td>
<td>Superior</td>
</tr>
<tr>
<td></td>
<td>Ms. Padma Doppalapudi</td>
<td>10</td>
<td>Individual</td>
<td>Hair to the Oil Rescue</td>
<td>Excellent</td>
</tr>
<tr>
<td></td>
<td>Ms. Apurva Makote</td>
<td>10</td>
<td>Individual</td>
<td>Turning Water into Fuel</td>
<td>Superior</td>
</tr>
<tr>
<td></td>
<td>Mr. Rilo Patrick Oberg</td>
<td>10</td>
<td>Individual</td>
<td>Testing Materials Impurities with Terahertz Light: Using Terahertz Time-Domain Spectroscopy to Develop a Non-Destructive Method for Materials Evaluation for Electronics and Semiconductor Applications</td>
<td>Superior</td>
</tr>
<tr>
<td></td>
<td>Mr. Jay Kalpeshkumar Panchal</td>
<td>7</td>
<td>Individual</td>
<td>Does Temperature Affect Surface Tension?</td>
<td>Superior</td>
</tr>
<tr>
<td></td>
<td>Ms. Surabhi Pasupuleti</td>
<td>10</td>
<td>Individual</td>
<td>Plants And Bacteria</td>
<td>Superior</td>
</tr>
</tbody>
</table>
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Dayton Regional STEM School, Kettering

Ms Neeti Prasad
Grade: 10
Project Type: Individual
Project Title: Detecting Vasodilation to Prevent Heat Strokes: Transducing Liquid Flow Rate to Temperature for Sensing

Ms. Brianne Ellen Snider
Grade: 9
Project Type: Individual
Project Title: Music Memory

Ms. Letty Grace Weimer
Grade: 9
Project Type: Individual
Project Title: Hydroponics: Ditch the Dirt

Ms. Chloe Shiree Kuntz
Grade: 9
Project Type: Team
Project Title: Biomass Application Experiment

Ms. Madailein Ann Logan
Grade: 9
Project Type: Team
Project Title: Biomass Application Experiment

Mr. John David Schmenk
Grade: 9
Project Type: Team
Project Title: Effects of Wi-Fi on Fruit Flies

Mr. Isaiah Brayden Stokes
Grade: 9
Project Type: Team
Project Title: Effects of Wi-Fi on Fruit Flies

Mr. Christopher Benton Sturgeon
Grade: 9
Project Type: Team
Project Title: Winging It
<table>
<thead>
<tr>
<th>School</th>
<th>Teacher</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dayton Regional STEM School, Kettering</td>
<td>Mr. Evan Rakes Toler</td>
<td>Winging It</td>
<td>9</td>
<td>Team</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>DeColores Montessori, Greenville</td>
<td>Mr. Leo Douglas Williams</td>
<td>Fluoride and the Effect It Has on Teeth</td>
<td>8</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Delaware Christian, Delaware</td>
<td>Ms. Ellie Maurer</td>
<td>The Windy 500</td>
<td>5</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Dublin Coffman HS, Dublin</td>
<td>Ms Himani Sweta Pattisam</td>
<td>Turmeric's Effect on E. coli Growth as a Prevention and Cure Mechanism</td>
<td>10</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td>Mr Lohith Savardekar</td>
<td>Exploring the effect of Glyphosate on Genetically Modified Soybeans</td>
<td>10</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Dublin Jerome HS, Dublin</td>
<td>Ms Mohini Parvate</td>
<td>An In silico approach to study Bacterial Protein determinants of antibiotic resistance</td>
<td>10</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td>Mr Mihir Vador</td>
<td>Predicting Slope Failure Using Soil Stability Data</td>
<td>9</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>
East Community Learning Center, Akron

Ms. Victoria Gail McCord
Grade: 11  Project Type: Team
Project Title: Why do Teens Stress So Much?

OAS AWARD
Superior
Sponsored Awards -if any

Ms. Jessalyn Reann Sakacsi
Grade: 11  Project Type: Team
Project Title: Why do Teens Stress So Much?

OAS AWARD
Superior
Sponsored Awards -if any

Ms. Sierra Hazel Sipos
Grade: 11  Project Type: Team
Project Title: Why do Teens Stress So Much?

OAS AWARD
Superior
Sponsored Awards -if any

East Richland Christian School, St Clairsville

Ms Emma L Conners
Grade: 10  Project Type: Individual
Project Title: HOW SEED INOCULATION AFFECTS SOYBEAN GERMINATION AT VARIOUS WATER pH LEVELS

OAS AWARD
Superior
Sponsored Awards -if any

Ms Gracie Kaylee Crumm
Grade: 7  Project Type: Individual
Project Title: The Effect of Sodas on Tooth Enamel Erosion Simulated by Limestone Erosion

OAS AWARD
Superior
Sponsored Awards -if any

Ms Alina Handte
Grade: 9  Project Type: Individual
Project Title: Tire Friction

OAS AWARD
Excellent
Sponsored Awards -if any

Mr Alex Richards
Grade: 7  Project Type: Individual
Project Title: Fabric Fire Safety

OAS AWARD
Superior
Sponsored Awards -if any

Mr Drew Roberts
Grade: 6  Project Type: Individual
Project Title: EMF Measurements of Devices

OAS AWARD
Superior
Sponsored Awards -if any
East Richland Christian School, St Clairsville

Mr Nash Anthony Roberts
Grade: 6  Project Type: Individual
Project Title: Diaper Absorbency

Ms Danica Stoffer
Grade: 6  Project Type: Individual
Project Title: The Effect of Multisensory Exercises on Handwriting Errors

Mr Tim J. Stoffer
Grade: 9  Project Type: Individual
Project Title: The Effect of Extremely Low Frequency Electromagnetic Radiation on Soybean Plant Growth

Ms Kaylynn E Yockey
Grade: 10  Project Type: Individual
Project Title: Wind Turbine Blade Design's Effect on Output

Emerson ES, Westerville

Ms. Addie Gurgiolo
Grade: 5  Project Type: Individual
Project Title: A Salty Eggsperiment: Testing How Salt In Water Affects Density

Fairfield Christian Academy, Lancaster

Ms. Addyson Elisabeth Barnhart
Grade: 6  Project Type: Individual
Project Title: Using Your Eyes Not Your Ears: Adapting with Vision Loss in Cornhole

Ms. Abigail Rose Starkey
Grade: 6  Project Type: Individual
Project Title: Perfect Polish?
### Fairfield Local MS, Leesburg

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Peyton Breann Magee</td>
<td>8</td>
<td>Team</td>
<td>Analysis of Aerosolized Formaldehyde in Flavored E-Liquids Using ENDS</td>
</tr>
<tr>
<td>Ms. Faith Elizabeth Miller</td>
<td>8</td>
<td>Team</td>
<td>Analysis of Aerosolized Formaldehyde in Flavored E-Liquids Using ENDS</td>
</tr>
<tr>
<td>Ms. Paris Suzanne Priest</td>
<td>8</td>
<td>Team</td>
<td>Bacteria on Pillows</td>
</tr>
<tr>
<td>Ms. Mikalah Lanai Sheridan</td>
<td>8</td>
<td>Team</td>
<td>Bacteria on Pillows</td>
</tr>
</tbody>
</table>

### Fairland HS, Proctorville

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Isabella Burcham</td>
<td>10</td>
<td>Individual</td>
<td>Aquaponics: Comparing Growth Mediums</td>
</tr>
<tr>
<td>Ms. Kylie Hayes</td>
<td>9</td>
<td>Individual</td>
<td>Blood Spatters</td>
</tr>
<tr>
<td>Ms. Maddie Grace Miller</td>
<td>9</td>
<td>Individual</td>
<td>Which Gas Makes a Basketball Bounce Higher?</td>
</tr>
<tr>
<td>Ms. Elizabeth Erin Swolsky</td>
<td>9</td>
<td>Individual</td>
<td>&quot;Hot&quot; Water</td>
</tr>
</tbody>
</table>

---

**State Science Day - May 11, 2019**  
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority  
Hosted by The Ohio State University

**OAS AWARD**

- Superior
- Excellent
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Fairland HS, Proctorville

Ms Zoie Weinsweig
Grade: 9  Project Type: Individual
Project Title: Blue Rays
OAS AWARD
Excellent
Sponsored Awards -if any

Mr. Anthony Hanchuan Zhu
Grade: 10  Project Type: Individual
Project Title: Memory
OAS AWARD
Excellent
Sponsored Awards -if any

Fairland MS, Proctorville

Ms. Kathryn Julianne Bell
Grade: 7  Project Type: Individual
Project Title: Which Orange Juice Is Best?
OAS AWARD
Superior
Sponsored Awards -if any

Farmersville ES, Farmersville

Mr. Sam Berry
Grade: 5  Project Type: Team
Project Title: Saving Strawberries
OAS AWARD
Excellent
Sponsored Awards -if any

Mr. Anthony Valenti
Grade: 5  Project Type: Team
Project Title: Saving Strawberries
OAS AWARD
Excellent
Sponsored Awards -if any

Fayetteville Perry MS, Fayetteville

Mr Cody C Barber
Grade: 8  Project Type: Individual
Project Title: Bean Yields: Fungicide vs Nonfungicide
OAS AWARD
Superior
Sponsored Awards -if any

Ms Ainsley Beckler
Grade: 7  Project Type: Individual
Project Title: Farming for the Future?
OAS AWARD
Excellent
Sponsored Awards -if any
Fayetteville Perry MS, Fayetteville

Ms. Kaya Mitchell
Grade: 6  Project Type: Individual
Project Title: A Sharpie Rainbow

Fayetteville-Perry ES, Fayetteville

OAS AWARD
Excellent

Mr. Jacob Faulkner
Grade: 5  Project Type: Individual
Project Title: Distance vs. Weight

Felicity Franklin MS, Felicity

OAS AWARD
Excellent

Mr. Nathan Adams
Grade: 5  Project Type: Team
Project Title: Bouncing Basketballs

OAS AWARD
Superior

Mr. Alex Bartolin
Grade: 5  Project Type: Team
Project Title: Attractive Colors

OAS AWARD
Excellent

Ms. Abigail Masterson
Grade: 5  Project Type: Team
Project Title: Delicious Electricity

OAS AWARD
Superior

Ms. Kaylie Roesch
Grade: 5  Project Type: Team
Project Title: Attractive Colors

OAS AWARD
Excellent

Mr. Trenton Taulbee
Grade: 5  Project Type: Team
Project Title: Bouncing Basketballs

OAS AWARD
Excellent

Ms. Hailey Wendling
Grade: 5  Project Type: Team
Project Title: Delicious Electricity
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Firestone Community Learning Center, Akron

Ms. Hannah Adams Gemmell
Grade: 9 Project Type: Individual
Project Title: Would you Kill the Ocean to Save your Skin? The Effect of Reef Safe Sunscreen, Oxybenzone, and Octocrylene on Bioluminescent Dinoflagellantes

OAS AWARD Superior
Sponsored Awards -if any 019 SCH 080 3RD

Ms. Catherine Elizabeth Greer
Grade: 10 Project Type: Individual
Project Title: Hydro-Propulsion

OAS AWARD Excellent
Sponsored Awards -if any

Fort Jennings HS, Fort Jennings

Mr. Eli Brown
Grade: 7 Project Type: Individual
Project Title: Aerodynamics

OAS AWARD Superior
Sponsored Awards -if any

Mr. Mason German
Grade: 7 Project Type: Individual
Project Title: Wheel Diameter Effect on Electrical Output

OAS AWARD Excellent
Sponsored Awards -if any

Ms. Madison Ricker
Grade: 7 Project Type: Individual
Project Title: The Egg-citing Osmosis Eggs-periment

OAS AWARD Excellent
Sponsored Awards -if any

Ms Sydnie Siebeneck
Grade: 11 Project Type: Individual
Project Title: What are the Effects of MDMA and Methylone on the Heart Rate and Survival of the Model Organism Daphnia Magna

OAS AWARD Superior
Sponsored Awards -if any

Ms Mackenna Stechschulte
Grade: 11 Project Type: Individual
Project Title: Difference between computer based testing and paper testing in terms of the Stroop Effect

OAS AWARD Superior
Sponsored Awards -if any
### Fort Jennings HS, Fort Jennings

<table>
<thead>
<tr>
<th>Name</th>
<th>Award</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Carley High Von Sossan</td>
<td>Superior</td>
<td>8</td>
<td>Individual</td>
<td>The Effect of Differing Electrolyte Supplement Dosages on Stomach Acid</td>
</tr>
<tr>
<td>Ms Rachel Von Sossan</td>
<td>Excellent</td>
<td>8</td>
<td>Individual</td>
<td>Which Fruit Has the Lowest Sugar Content and When?</td>
</tr>
</tbody>
</table>

### Franklin Monroe HS, Pitsburg

<table>
<thead>
<tr>
<th>Name</th>
<th>Award</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Chase Osterday</td>
<td>Superior</td>
<td>11</td>
<td>Individual</td>
<td>Electromagnetic Propulsion: Fuel of the Future</td>
</tr>
<tr>
<td>Ms. Keihl Johnson</td>
<td>Superior</td>
<td>7</td>
<td>Team</td>
<td>Natural Filtration</td>
</tr>
<tr>
<td>Mr. Mason Lair</td>
<td>Superior</td>
<td>7</td>
<td>Team</td>
<td>Natural Filtration</td>
</tr>
<tr>
<td>Ms. Emma Miller</td>
<td>Superior</td>
<td>7</td>
<td>Team</td>
<td>Natural Filtration</td>
</tr>
</tbody>
</table>

### Franklin Twp ES, Wooster

<table>
<thead>
<tr>
<th>Name</th>
<th>Award</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Haily E Browning</td>
<td>Superior</td>
<td>5</td>
<td>Individual</td>
<td>Train Your Brain</td>
</tr>
<tr>
<td>Mr. Maksim W Schneider</td>
<td>Superior</td>
<td>6</td>
<td>Individual</td>
<td>How to Not Air Your Dirty Laundry</td>
</tr>
</tbody>
</table>
# State Science Day - May 11, 2019

Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority

Hosted by The Ohio State University

<table>
<thead>
<tr>
<th>Geneva HS, Geneva</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mr William D McDaniel</strong></td>
<td><strong>Excellent</strong></td>
<td></td>
</tr>
<tr>
<td>Grade: 10</td>
<td>Project Type: Individual</td>
<td><strong>Capillarity of Paper Towels: One-Ply or Two-Ply?</strong></td>
</tr>
</tbody>
</table>

| **Ms Alaina Cristine Metzler** | **Superior** | |
| Grade: 10 | Project Type: Individual | **Potential Growth: A Study of the Effect of Soil Type and pH on Soybean Plant Growth** |

| **Ms Grace Moon** | **Excellent** | |
| Grade: 9 | Project Type: Individual | **Organic Filters Take On Herbicide** |

| **Ms Renee Tetlow** | **Excellent** | |
| Grade: 9 | Project Type: Individual | **How Does Gloss Affect Different Aspects of Color: Chroma, Lightness, and Hue?** |

<table>
<thead>
<tr>
<th>Geneva JS, Geneva</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ms Makenna Grace Cinco</strong></td>
<td><strong>Excellent</strong></td>
<td></td>
</tr>
<tr>
<td>Grade: 8</td>
<td>Project Type: Individual</td>
<td><strong>LED Light Versus Fluorescent Light Versus Incandescent Light: The Effects of Different Light on Soybean Plant Growth</strong></td>
</tr>
</tbody>
</table>

| **Mr. Nathan Miller** | **Superior** | **246 1ST** |
| Grade: 7 | Project Type: Individual | **Are Enzymes Effective** |

| **Mr Sam Miller** | **Superior** | |
| Grade: 8 | Project Type: Individual | **The Bacteria Among Us** |
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio
Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Genoa Christian Academy, Westerville

Ms. Isabelle Kathleen Lassiter
Grade: 7  Project Type: Individual
Project Title: What are the physics behind a figure skating toe loop jump depending on speed?

OAS AWARD  Superior

Ms. Brinn Elise Trinka
Grade: 7  Project Type: Individual
Project Title: What component affects how well a gymnast vaults?

OAS AWARD  Excellent

Georgetown Jr/Sr HS, Georgetown

Ms. Riley Ann Bertram
Grade: 7  Project Type: Individual
Project Title: How salty does water have to be to allow an egg to float?

OAS AWARD  Excellent

Mr. Kayden Alan Klump
Grade: 7  Project Type: Individual
Project Title: What happens if more magnets are added to each side of a electromagnetic train?

OAS AWARD  Superior

Glandorf ES, Glandorf

Ms. Alexa Fortman
Grade: 8  Project Type: Individual
Project Title: Do EMFs Affect Plant Growth?

OAS AWARD  Superior

Ms. Faith Kehres
Grade: 8  Project Type: Individual
Project Title: Do Genetics Play a Role in Fingerprints?

OAS AWARD  Excellent

Mr. Emmitt Maag
Grade: 8  Project Type: Individual
Project Title: Concrete Strength: How its does the sand to cement mixture affect the concrete strength

OAS AWARD  Excellent
Glen Oak HS, Canton

Ms Sheetal Sai Tallada

Grade: 12  Project Type: Individual
Project Title: Effect of Natural Compounds Curcumin and Nicotinamide on α-Synuclein Accumulation in a C. elegans Model of Parkinson's.

Global Impact STEM Academy, Springfield

Mr. Carter Douglas Brown

Grade: 8  Project Type: Individual
Project Title: Does Gender Affect Eye Dominance

Mr. Drew Duffey

Grade: 8  Project Type: Individual
Project Title: The effect of agricultural runoff on water quality of nearby streams

Mr. Eric James Goddard

Grade: 9  Project Type: Individual
Project Title: How Does Distance Affect The Power Of A Bullet At Impact?

Mr. Jaymirr Tyreece Johnson

Grade: 12  Project Type: Individual
Project Title: How The Length of Fermentation Affects Alcohol

Ms Aleacia Laird

Grade: 12  Project Type: Individual
Project Title: Does Oregano Resist Better Against Gram+ or Gram- Bacteria?

Mr Matthew Mayhan

Grade: 9  Project Type: Individual
Project Title: In a Rush, Chop or Crush: How Surface Area Affects the Rate of a Chemical Reaction

Ms Hayley Milliron

Grade: 12  Project Type: Individual
Project Title: Does the Percentage of Compost in Soil Have an Impact on the Growth Rate of a Plant?
<table>
<thead>
<tr>
<th>Location</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global Impact STEM Academy, Springfield</td>
<td>How do Blood Glucose Levels Affect Bacterial Growth?</td>
<td>9</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Do Putter Grooves Actually Affect The Golf Ball?</td>
<td>11</td>
<td>Individual</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S'mores</td>
<td>7</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graham HS, St Paris</td>
<td>Cool-It! Preventing PC Thermal Throttling</td>
<td>9</td>
<td>Individual</td>
<td>No Show</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greenville Sr HS, Greenville</td>
<td>The Path of Greatest Velocity</td>
<td>11</td>
<td>Individual</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Making Concrete Green</td>
<td>10</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Which fluoride application helps prevent erosion of human teeth from the most commonly consumed drinks by teens ages 14-18?</td>
<td>10</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Guardian Angels, Cincinnati

Ms Gia Guessford
Grade: 8  Project Type: Individual
Project Title: Can Multivitamins Make Microgreens Even Healthier?

Hamersville ES, Hamersville

Ms. Olivia Jane Cook
Grade: 5  Project Type: Individual
Project Title: Get It To Rot: Bury or Not?

Ms Kaylee Helbling
Grade: 7  Project Type: Individual
Project Title: Churn Baby Churn

Harding MS, Steubenville

Mr. Liam O’Brien
Grade: 7  Project Type: Individual
Project Title: Which Toothpaste Will Give You The Brightest Smile?

Ms. Sarah Ann Allen
Grade: 7  Project Type: Team
Project Title: Can a Parachute land a Crashing plane

Ms. Kayla Annmarie Biasi
Grade: 6  Project Type: Team
Project Title: Do different areas attract more air pollution than others?

Ms. Gia Renee Bowman
Grade: 7  Project Type: Team
Project Title: Can a Parachute land a Crashing plane

OAS AWARD
Sponsored Awards -if any

Guardian Angels, Cincinnati
No Show

Hamersville ES, Hamersville
Superior

Hamersville ES, Hamersville
Superior

Harding MS, Steubenville
Superior

OAS AWARD
Sponsored Awards -if any

Guardian Angels, Cincinnati

Hamersville ES, Hamersville

Harding MS, Steubenville
**State Science Day - May 11, 2019**
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

<table>
<thead>
<tr>
<th>School</th>
<th>Award Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Harding MS, Steubenville</strong></td>
<td>OAS AWARD</td>
<td>Rust Race 2.0</td>
</tr>
<tr>
<td>Mr James Jerod Devereaux</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 6</td>
<td>Project Type: Team</td>
<td></td>
</tr>
<tr>
<td>Project Title: Rust Race 2.0</td>
<td>Sponsored Awards -if any</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School</th>
<th>Award Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ms. Alexis Faye Lukacena</strong></td>
<td>OAS AWARD</td>
<td>Do different areas attract more air pollution than others?</td>
</tr>
<tr>
<td>Grade: 6</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Sponsored Awards -if any</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School</th>
<th>Award Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mr. Owen O’Brien</strong></td>
<td>OAS AWARD</td>
<td>How many germs live on your kitchen sponge?</td>
</tr>
<tr>
<td>Grade: 6</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Sponsored Awards -if any</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School</th>
<th>Award Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mr. Jordan Joseph Ribar</strong></td>
<td>OAS AWARD</td>
<td>How many germs live on your kitchen sponge?</td>
</tr>
<tr>
<td>Grade: 6</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Sponsored Awards -if any</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School</th>
<th>Award Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mr Isaac Sharp Rosel</strong></td>
<td>OAS AWARD</td>
<td>Rust Race 2.0</td>
</tr>
<tr>
<td>Grade: 6</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Project Title: Rust Race 2.0</td>
<td>246 1ST</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School</th>
<th>Award Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hathaway Brown, Shaker Hts</strong></td>
<td>OAS AWARD</td>
<td>Effect of different materials on the amount of atrazine in groundwater.</td>
</tr>
<tr>
<td>Ms. Alison Jane Gunzler</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 8</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Sponsored Awards -if any</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School</th>
<th>Award Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ms. Nysha Gupta</strong></td>
<td>OAS AWARD</td>
<td>Aluminum Effect on Seed Germination</td>
</tr>
<tr>
<td>Grade: 7</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Sponsored Awards -if any</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School</th>
<th>Award Level</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ms Sahar Maleki</strong></td>
<td>OAS AWARD</td>
<td>Autism: A Developmental Vulnerability Due to Mismatch Between Genetic Ability to Adapt and Speed of Change in the Environment; Implications of an Animal Experiment</td>
</tr>
<tr>
<td>Grade: 8</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Sponsored Awards -if any</td>
<td></td>
</tr>
</tbody>
</table>
Hathaway Brown, Shaker Hts

Ms Shruthi Ravichandran

Grade: 10  Project Type: Individual
Project Title: Site-Specific Delivery of Immune Agonists for Antitumoral Response of the Tumor Microenvironment

OAS AWARD  Sponsored Awards -if any
Superior  033 1ST  192 1ST  248 1ST

Ms. Neha Nailesh Sangani

Grade: 7  Project Type: Individual
Project Title: Effect of Solutes on The Absorbency of Sodium Polyacrylate

OAS AWARD  Sponsored Awards -if any
Superior  134 1ST  148 2ND

Hawken School, Gates Mills

Mr Daniel Gergely Kotrebai

Grade: 11  Project Type: Individual
Project Title: Calcium Signaling in Induced Pluripotent Stem Cell Derived Schizophrenic Hippocampal Neurons and Neurons Derived From a Novel Shortcut Differentiation Protocol

OAS AWARD  Sponsored Awards -if any
Superior

Heartland Christian School, Columbiana

Ms Noelle Beagle

Grade: 9  Project Type: Individual
Project Title: Interaction of Oil and Water

OAS AWARD  Sponsored Awards -if any
Excellent

Heritage MS, Westerville

Mr Shrey Shyamalan

Grade: 7  Project Type: Individual
Project Title: What's the buzz about Cccc's - impact of cooking cauliflower on Vitamin C

OAS AWARD  Sponsored Awards -if any
Excellent

Herman K Ankeney MS, Beavercreek

Mr. Aryan Desarapu

Grade: 7  Project Type: Team
Project Title: Optimal Configurations for Best Possible Residential Wi-Fi Signal

OAS AWARD  Sponsored Awards -if any
Superior  133 2ND

Mr. Aditya Patnaik

Grade: 7  Project Type: Team
Project Title: Optimal Configurations for Best Possible Residential Wi-Fi Signal

OAS AWARD  Sponsored Awards -if any
Superior  133 2ND
## State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

### Hilltop HS, West Unity

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Jimmy B. Bell</td>
<td>8</td>
<td>Individual</td>
<td>Composting Different Types of Trash Bags</td>
</tr>
<tr>
<td>Ms. Katie Sue Geis</td>
<td>11</td>
<td>Individual</td>
<td>Effectiveness of Essential Oils and Traditional Cleaning Products on the Elimination of E</td>
</tr>
<tr>
<td>Mr. Nash Allen Kuney</td>
<td>12</td>
<td>Individual</td>
<td>3D Printed Part Strength with Orientation and Layer Height</td>
</tr>
<tr>
<td>Mr. Adley Scott McNeal</td>
<td>11</td>
<td>Individual</td>
<td>Engineering A Self-Navigating Robot</td>
</tr>
<tr>
<td>Ms. Morgan Grace Norden</td>
<td>11</td>
<td>Individual</td>
<td>Special Needs Children Responses to Sensory Objects Compared to Typical Children</td>
</tr>
<tr>
<td>Ms. Madisyn Nicole Routt</td>
<td>8</td>
<td>Individual</td>
<td>What is the Most Effective SPF in Sunscreen?</td>
</tr>
<tr>
<td>Ms Haylee Marie-Nicole Sexton</td>
<td>12</td>
<td>Individual</td>
<td>The Effects of Surface Temperature on Fingerprint Clarity: A Two Year Study</td>
</tr>
</tbody>
</table>

### Excellent

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Morgan Grace Norden</td>
<td>11</td>
<td>Individual</td>
<td>Special Needs Children Responses to Sensory Objects Compared to Typical Children</td>
</tr>
</tbody>
</table>

### Superior

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Alora Lee Siegel</td>
<td>7</td>
<td>Individual</td>
<td>The Effects Cutting Fluids Have On The Temperature Of Aluminum While Machining</td>
</tr>
</tbody>
</table>
Hilltop HS, West Unity

Ms. Katelynn Elizabeth Smith
Grade: 11  Project Type: Individual
Project Title: The Effects of Different Teaching Methods in Turn-Taking on Typical vs. Autistic Children

Holy Angels, Sidney

Mr. John David Brunner II
Grade: 8  Project Type: Individual
Project Title: The Effect of Aluminum on the Growth of Staphylococcus Epidermidis

Ms. Layla RaShell Platfoot
Grade: 6  Project Type: Individual
Project Title: Do homemade or store bought bath bombs dissolve faster?

Mr. Colin Potts
Grade: 6  Project Type: Individual
Project Title: Will You Remember?

Mr. Jude Dominic Schmiesing
Grade: 8  Project Type: Individual
Project Title: Bacterial Growth

Holy Family, Parma

Ms. Jaylee Mae Conrad
Grade: 8  Project Type: Individual
Project Title: Eating Water

Holy Family, Poland

Mr. Aidan Peter Markey
Grade: 7  Project Type: Individual
Project Title: Putting Wind To Work
Holy Trinity, Avon

Mr. Ryan Lawlor
Grade: 6  Project Type: Individual
Project Title: Which Type of Bread Molds Fastest?

OAS AWARD Superior

Sponsored Awards -if any

Ms. Sarah Connor
Grade: 6  Project Type: Team
Project Title: Which Smoothie is Healthiest?

OAS AWARD Excellent

Sponsored Awards -if any

Mr. Lucas Hung
Grade: 11  Project Type: Individual
Project Title: EXFA On The Fly: Testing the In-Air Performance of the EXtended Flaps and Airbrakes (EXFA) System

OAS AWARD Superior

Sponsored Awards -if any

Home Schooled - District 10,

Mr. Joshua David Cook
Grade: 7  Project Type: Individual
Project Title: Prizewinning Popcorn Predictions

OAS AWARD Superior

Sponsored Awards -if any

Mr. Benjamin David Pullins
Grade: 7  Project Type: Individual
Project Title: The Effectiveness of Egg Yolk, Egg White, and Whole Egg as a Water in Oil Emulsifier

OAS AWARD Excellent

Sponsored Awards -if any

Mr. Aaron Taormina
Grade: 7  Project Type: Individual
Project Title: Which Watch? Fitness Tracker Accuracy

OAS AWARD Superior

Sponsored Awards -if any
**State Science Day - May 11, 2019**
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

**Home Schooled - District 15,**

Mr. Samuel John Kime

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>

Grade: 9  Project Type: Individual
Project Title: The effects of vitamins on bacterial growth

**Home Schooled - District 3,**

Mr. Soham Santosh Joshi

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td>072 2ND 080 2ND 091 1ST 251 2ND</td>
</tr>
</tbody>
</table>

Grade: 9  Project Type: Individual
Project Title: Mechanism Leveraging E-Waste to Enhance Water Condensation Through Effective Use of Solid State Magneto-Caloric Thermal Cooling.

**Home Schooled - District 4,**

Mr. Kaz Kojima

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td>245 1ST</td>
</tr>
</tbody>
</table>

Grade: 8  Project Type: Individual
Project Title: Pupillography Image Analysis for Measuring Pupillary Light Reflex

**Horizon Science Academy, Cincinnati**

Ms Carina Arreaga Mejia

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>

Grade: 8  Project Type: Individual
Project Title: The Effect of Ethyl Alcohol on the Heart Rate of Daphnia Magna.

**Horizon Science Academy, Columbus**

Ms Afua Bonna

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td>031 3RD 169 3RD</td>
</tr>
</tbody>
</table>

Grade: 10  Project Type: Individual
Project Title: Energy Drinks: The New Substitute

Ms Asantewa Bonna

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td></td>
</tr>
</tbody>
</table>

Grade: 9  Project Type: Individual
Project Title: The Effect of Catalysts on Ethanol Production Through Yeast Fermentation

Mr. Nickolas Magno Gomes

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>

Grade: 9  Project Type: Individual
Project Title: Device to Minimize Fidgeting
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Horizon Science Academy, Columbus

Mr. Javontay Dewon James
Grade: 11  Project Type: Individual
Project Title: Application of Dimensional Analysis to Explain Anomalies in the Theory of Gravity

Mr. Albert Timothy Kargbo
Grade: 11  Project Type: Individual
Project Title: Transfer of learning

Mr. Sabriye Leeban Mohamed
Grade: 9  Project Type: Individual
Project Title: The efficiency of wind turbines with respect to the number of the blades, angle of the blades and the length of the blades

Ms. Hafsa Omar Qalinle
Grade: 9  Project Type: Individual
Project Title: Effect of different types of probiotic food on mass of mice

Ms. Esther D. Quaye
Grade: 10  Project Type: Individual
Project Title: The Effect of a Change in Temperature on Catalase Activity

Ms Alyssa Ziegler
Grade: 12  Project Type: Individual
Project Title: The Comparison of Creativity Between Left Brained and Right Brained People.

Horizon Science Academy, Lorain

Ms. Zeynep Cetin
Grade: 10  Project Type: Individual
Project Title: Qualitative Study on Sound Pollution on Ostariophysi Communication and Behavior

Ms. Julissa Nayelie Hernandez
Grade: 11  Project Type: Individual
Project Title: A Qualitative Study on Coral Reefs Under The Influence Of Increasing Carbon Dioxide Levels In The Atmosphere
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Horizon Science Academy, Lorain

Ms. Abigail Madison Ann Laurenti
Grade: 10  Project Type: Individual
Project Title: A Quantitative Study On Reducing Greenhouse Emissions Using A Specialized Catalytic Converter

Horizon Science Academy MS, Columbus

Mr. Yonis Yusuf Hashi
Grade: 7  Project Type: Individual
Project Title: A Hidden Treasure: LED

Howland HS, Warren

Mr. William Eisen
Grade: 12  Project Type: Individual
Project Title: Effects Of Human Wastes On The Growth Of Plants In Mars Substrate

Hudson HS, Hudson

Mr Patrick Li
Grade: 10  Project Type: Individual
Project Title: Smart Midnight Care: Development of a Control Module for an Auto-blanketing System

Mr Michael Scheeser
Grade: 10  Project Type: Individual
Project Title: Maximizing Efficiency of Geothermal Power

Hyatts MS, Powell

Mr. Krishnasanhith Choppara
Grade: 8  Project Type: Individual
Project Title: Electromagnetic Gloves

Immaculate Conception, Columbus

Ms. Alaina Catherine Bennett
Grade: 7  Project Type: Individual
Project Title: Germs-B-Gone
<table>
<thead>
<tr>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Immaculate Conception, Columbus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Ms. Mia Ann Gill</em></td>
<td>7</td>
<td>Individual</td>
<td>Illusion Confusion</td>
<td>Superior</td>
<td>250</td>
</tr>
<tr>
<td><em>Mr. Luke James Hangen</em></td>
<td>7</td>
<td>Individual</td>
<td>The Strongest Knot</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td><em>Mr. Xavier Manning Thomas</em></td>
<td>7</td>
<td>Individual</td>
<td>Basketball: The Hot 100</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td><strong>Incarnate Word Academy, Parma Hts</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Mr. Charles Pafford</em></td>
<td>8</td>
<td>Individual</td>
<td>Materials and Design Optimization for Fused Deposition Modeling (FDM) Application of Vehicle Suspension Parts</td>
<td>Superior</td>
<td>058 2ND 106 2ND 147 2nd</td>
</tr>
<tr>
<td><em>Mr. Anthony Joseph Pelto</em></td>
<td>7</td>
<td>Individual</td>
<td>What Is The Optimal Weather Condition For Pitching A Baseball</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td><strong>Incarnation, Centerville</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Ms. Diya Caroline Percy</em></td>
<td>7</td>
<td>Individual</td>
<td>How Does pH Affect Vibrancy of Color on Natural and Synthetic Dyes</td>
<td>Superior</td>
<td>250</td>
</tr>
<tr>
<td><em>Ms. Sarah Katherine Theewis</em></td>
<td>8</td>
<td>Individual</td>
<td>Death ray</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td><em>Mr. John Phillip Tishaus</em></td>
<td>7</td>
<td>Individual</td>
<td>What Wood Burns the Hottest?</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>School</td>
<td>Grade</td>
<td>Project Title</td>
<td>OAS Award</td>
<td>Awards</td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-------</td>
<td>---------------------------------------------------</td>
<td>-----------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>Independence ES, Liberty Twp</td>
<td>5</td>
<td>Fruit Power</td>
<td>Superior</td>
<td>178 1ST</td>
<td></td>
</tr>
<tr>
<td>Ms. Varun Das</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ms. Cecelia Shamp</td>
<td>6</td>
<td>Sap to Syrup to Sweets</td>
<td>Superior</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>Indian Valley MS, Tuscarawas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mr. Ben Sloan</td>
<td>7</td>
<td>The Big Catch</td>
<td>Excellent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ms Snehal Choudhury</td>
<td>9</td>
<td>Anti-Chlorine Plan: Identifying a Natural Barrier for the Human Skin</td>
<td>Superior</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jackson HS, Massillon</td>
<td>7</td>
<td>Urine vs. Water- Does urine affect soybean plant growth?</td>
<td>Excellent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ms. Rylie Kilgour</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ms. Elle Marie Vence</td>
<td>11</td>
<td>Bio Balls or Ceramics in Your Aquarium</td>
<td>Good</td>
<td>236 SCH</td>
<td></td>
</tr>
<tr>
<td>Ms. Megan Haley Marie Jacobs</td>
<td>11</td>
<td>Bacterial Retention on Cell Phones, Keyboards and TV Remotes</td>
<td>Excellent</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

### Jefferson Area Jr/Sr HS, Jefferson

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Seth A Rundo</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>

**Grade:** 11  **Project Type:** Team  **Project Title:** Bacterial Retention on Cell Phones, Keyboards and TV Remotes

### John C Dempsey MS, Delaware

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr Walt Conte</td>
<td>Superior</td>
<td>250 254 1st</td>
</tr>
</tbody>
</table>

**Grade:** 7  **Project Type:** Individual  **Project Title:** Thermal Theories, A Study of the Electrical Generating Efficiency of Small-Array Thermoelectric Plates

### John Sells MS, Dublin

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Emily Carr</td>
<td>Excellent</td>
<td>067 3RD</td>
</tr>
</tbody>
</table>

**Grade:** 6  **Project Type:** Individual  **Project Title:** Don’t Pop Your Top

### Harold C. Shaw Outstanding School Award

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Estella Yisi Li</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>

**Grade:** 6  **Project Type:** Individual  **Project Title:** Evaluating the Impact of pH on Soybean Germination

### Mr. Ayush Singh

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
</table>

**Grade:** 7  **Project Type:** Individual  **Project Title:** Hydropower

### Superior

<table>
<thead>
<tr>
<th>Name</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Jacob Andrew Bolton</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>

**Grade:** 6  **Project Type:** Team  **Project Title:** Cryopreservation: Freezing cells inside ice

### Mr. Phanithan Konda

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
</table>

**Grade:** 6  **Project Type:** Team  **Project Title:** Cryopreservation: Freezing cells inside ice
Keene ES, Keene

Mr. Benjamin Robert Leasure  
OAS AWARD: Excellent  
Sponsored Awards -if any  
Grade: 6  
Project Type: Individual  
Project Title: A New Fuel

Kenston HS, Chagrin Falls

Mr. James Fredrick Horwitz  
OAS AWARD: Superior  
Sponsored Awards -if any  
Grade: 11  
Project Type: Team  
Project Title: Micromouse: An Application of Artificial Intelligence

Mr Robert Charles Sunderhaft  
OAS AWARD: Superior  
Sponsored Awards -if any  
Grade: 11  
Project Type: Team  
Project Title: Micromouse: An Application of Artificial Intelligence

Kilbourne MS, Worthington

Ms. Erin Finnerty  
OAS AWARD: Excellent  
Sponsored Awards -if any  
Grade: 7  
Project Type: Individual  
Project Title: Soybeans: How Small Microbes Make a Big Difference

Ms. Anna Markwardt  
OAS AWARD: Superior  
Sponsored Awards -if any  
Grade: 6  
Project Type: Individual  
Project Title: The Science of Slime: A Non-Newtonian Fluid

Mr Adrian C. Proca  
OAS AWARD: Superior  
Sponsored Awards -if any  
Grade: 7  
Project Type: Individual  
Project Title: Impact of Temperature Increase in Colored Light Emitting Diodes

Ms Margaret Lee Ray  
OAS AWARD: Superior  
Sponsored Awards -if any  
Grade: 8  
Project Type: Individual  
Project Title: Who's Afraid of the Big Bad Germ?
<table>
<thead>
<tr>
<th>School</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>L T Ball Intermediate ES, Tipp City</td>
<td>Dogs vs Humans: Are Dogs' Mouths Really Cleaner than Humans' Mouths?</td>
<td>5</td>
<td>Individual</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Ms. Leilani Matsunami Green</td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards</td>
</tr>
<tr>
<td>Mr. Jeffrey Martin</td>
<td>H2O Absorption</td>
<td>5</td>
<td>Individual</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Ms. Kamryn Clint</td>
<td>Which Substance Will Melt Ice the Fastest</td>
<td>5</td>
<td>Team</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Mr. Carson Jackson</td>
<td>Impact of projectile mass and magnet placement on propulsion distance in a Linear Magnetic Propulsion Machine</td>
<td>5</td>
<td>Team</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Ms. Caroline Kaibas</td>
<td>Which Substance Will Melt Ice the Fastest</td>
<td>5</td>
<td>Team</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Ms. Lindsey Osenko</td>
<td>Rotting Pumpkins</td>
<td>5</td>
<td>Team</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Ms. Tessa S Riehle</td>
<td>Rotting Pumpkins</td>
<td>5</td>
<td>Team</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Mr. Elias Stienecker</td>
<td>Impact of projectile mass and magnet placement on propulsion distance in a Linear Magnetic Propulsion Machine</td>
<td>5</td>
<td>Team</td>
<td>OAS AWARD</td>
</tr>
</tbody>
</table>
Laurel School, Shaker Hts

Ms. Elizabeth Ann Sims  
Grade: 11  Project Type: Individual  
Project Title: Development of a Mathematical Model to Predict Tech Stock Trends During Financial Crises  

Lehman Catholic HS, Sidney

Ms. Angela Brunner  
Grade: 11  Project Type: Individual  
Project Title: Which Fluid has the Optimal pH and Ascorbic Acid to Reduce GI Side Effects in Iron Absorption  

Ms. Alexandra Joymar Casillas  
Grade: 10  Project Type: Individual  
Project Title: What Are The Best Insulators to Clean Up Oil Spills  

Ms. Meghan Elise Chamberlin  
Grade: 9  Project Type: Individual  
Project Title: Dissipation Station  

Ms. Ann Deafenbaugh  
Grade: 11  Project Type: Individual  
Project Title: Going Bananas About Plastic  

Mr. Adith Joshua George  
Grade: 9  Project Type: Individual  
Project Title: Hand Crank Bactericidal Water Heater  

Mr. Cole Edward Gilardi  
Grade: 12  Project Type: Individual  
Project Title: Airfoil Efficiency  

Mr. Alexander James Gleason  
Grade: 12  Project Type: Individual  
Project Title: How do Sound and Light Frequencies Affect Plant Growth
### Lehman Catholic HS, Sidney

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Molly B Greene</td>
<td>9</td>
<td>Individual</td>
<td>Point of Contact</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Mr. Michael James O'Leary</td>
<td>9</td>
<td>Individual</td>
<td>Predatory Reaction Time of a Male African Clawed Frog</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Mr. David Michael Rossman</td>
<td>9</td>
<td>Individual</td>
<td>Accuracy of 3D Printers that Use a Different Light Source</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Ms. Jacquie M Schemmel</td>
<td>12</td>
<td>Individual</td>
<td>Caseins and Coagulation</td>
<td>Superior</td>
<td>012 SCH 031 2ND</td>
</tr>
<tr>
<td>Ms. Annamarie Burnette Stiver</td>
<td>9</td>
<td>Individual</td>
<td>Tablets vs Gel</td>
<td>Excellent</td>
<td>148 2ND</td>
</tr>
</tbody>
</table>

### Liberty Union HS, Baltimore

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Eddie Henderly</td>
<td>9</td>
<td>Individual</td>
<td>Mpemba Effect</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Mr Kalib Joshhua Riddle</td>
<td>9</td>
<td>Individual</td>
<td>Basalt Carbon Capture 2</td>
<td>Superior</td>
<td>079 1ST 080 1ST</td>
</tr>
<tr>
<td>Ms Alex Shy</td>
<td>9</td>
<td>Individual</td>
<td>The Effect of Grade and Gender on Implicit and Explicit Bias</td>
<td>Superior</td>
<td></td>
</tr>
</tbody>
</table>
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Liberty Union MS, Baltimore

Ms. Audrey Ann Farmer
Grade: 8 Project Type: Individual
Project Title: How Hypoglycemia Affects A Person

Ms. Olivia Hoskins
Grade: 8 Project Type: Individual
Project Title: The Study of Eosinophilic Esophagitis

Mr. Camden Lee Manson
Grade: 8 Project Type: Individual
Project Title: How Do Baseball Dimensions Affect Batting Statistics

Lincoln HS, Gahanna

Ms. Rhoda Michael Andemichael
Grade: 12 Project Type: Individual
Project Title: Investigating if Phone Usage Affects High School Students' Academic Performance

Mr. Adrian Y Bailey
Grade: 12 Project Type: Individual
Project Title: An Investigation of the Latency Time Between Hardware-Software Platforms.

Ms. Hattie Solange Benedetti
Grade: 12 Project Type: Individual
Project Title: An Exploration of Emotional Versus Logical Decision Making in the Brain Using a Choose Your Own Adventure Book

Mr. Tristan Alexander Hodgins
Grade: 12 Project Type: Individual
Project Title: Exploration of the Possibility of a Tetherless Remotely Operated Underwater Vehicle using Piezo Discs

Ms. Brooke Lynne Johnson
Grade: 12 Project Type: Individual
Project Title: Exposure of E-Cigarettes to Models to determine Cytotoxic effects
Lincoln HS, Gahanna

Ms. Abigail Elizabeth Slates
Grade: 12  Project Type: Individual
Project Title: Testing Water Filters to Remove Nitrogen and Phosphorus from Water for the Reduction of Algal Blooms

OAS AWARD
Excellent
Sponsored Awards -if any

Lincoln HS, Gahanna

Ms. Selin Ustel
Grade: 12  Project Type: Individual
Project Title: Sharklet's Inhibition of Bacterial Growth Relative to Surfaces Frequently Found in Hospitals

OAS AWARD
Excellent
Sponsored Awards -if any

Loudonville Jr HS, Loudonville

Mr. Brett Stephan Carnegie
Grade: 8  Project Type: Individual
Project Title: Ethanol: nutrient testing

OAS AWARD
Superior
Sponsored Awards -if any

Loudonville Jr HS, Loudonville

Ms. Marella Smith
Grade: 8  Project Type: Individual
Project Title: How Race Affects Intelligence

OAS AWARD
Excellent
Sponsored Awards -if any

Loudonville Jr HS, Loudonville

Malvern MS, Malvern

Mr. Shaw Braden Dreibelbis
Grade: 6  Project Type: Team
Project Title: Potato Power

OAS AWARD
Excellent
Sponsored Awards -if any

Malvern MS, Malvern

Mr. Dylan John Hartzler
Grade: 6  Project Type: Team
Project Title: Potato Power

OAS AWARD
Excellent
Sponsored Awards -if any

Malvern MS, Malvern

Mr. Jay Oliver Kettering
Grade: 6  Project Type: Team
Project Title: Potato Power

OAS AWARD
Excellent
Sponsored Awards -if any
## Marion Local ES, Maria Stein

**Mr. Ian Rindler**
- **Grade:** 6
- **Project Type:** Individual
- **Project Title:** Bouncing Golf Balls

**Marlington HS, Alliance**

**Ms. Mykenna Jean Creager**
- **Grade:** 10
- **Project Type:** Individual
- **Project Title:** Enzymic Vs. Non-Enzymic Laundry Detergent

**Mr. Nathan Zachariah Procter**
- **Grade:** 10
- **Project Type:** Individual
- **Project Title:** Fire Retardants Under Heat From the Media

**Ms. Evelyn Bullock**
- **Grade:** 10
- **Project Type:** Team
- **Project Title:** Death by Detergent

**Ms. Ella Diane Dipold**
- **Grade:** 10
- **Project Type:** Team
- **Project Title:** Less Weed Killer is More

**Mr. Austin Daniel Kamerer**
- **Grade:** 11
- **Project Type:** Team
- **Project Title:** Ballistics of Shear Thickening Fluid

**Mr. Colin Spencer Kunz**
- **Grade:** 11
- **Project Type:** Team
- **Project Title:** Ballistics of Shear Thickening Fluid

**Ms. Allison Lacher**
- **Grade:** 10
- **Project Type:** Team
- **Project Title:** Death by Detergent
Marlington HS, Alliance

Ms. Mary Elizabeth Mason
Grade: 10  Project Type: Team
Project Title: Less Weed Killer is More

Mr. Nicholas Alexander Taranto
Grade: 11  Project Type: Team
Project Title: Ballistics of Shear Thickening Fluid

Martins Ferry Christian, Martins Ferry

Ms Vanessa Lynn Murphy
Grade: 12  Project Type: Individual
Project Title: What Brand of ibuprofen Dissolves the Fastest: Generic vs. Name Brand?

Mason MS, Mason

Ms. Vidhi Vishwas Bakshi
Grade: 7  Project Type: Individual
Project Title: Crack The Code: Breaking A Caesar Cipher

Mr. Johan Adam DeMessie
Grade: 8  Project Type: Individual
Project Title: Use of the ‘Salt-Stain effect' for a rapid, low-cost analysis of groundwater

Ms. Cora Grace Grim
Grade: 7  Project Type: Individual
Project Title: Do 7th Graders Do Better On Paper/Pencil or Electronic Tests?

Ms. Deepalakshmi Manikandan
Grade: 8  Project Type: Individual
Project Title: how does temperature affect Magnetic strength

Ms. Srinidhi Valathappan
Grade: 7  Project Type: Individual
Project Title: There's Tension on the Surface
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Mason MS, Mason

Mr. Aryan Bhowmik
Grade: 8  Project Type:  Team
Project Title:  Amazing Wings

OAS AWARD  Excellent
Sponsored Awards -if any

Ms. Amuktha Rao Boyinepally
Grade: 8  Project Type:  Team
Project Title:  The Effects of Different Drinks on Short Term Memory

OAS AWARD  Superior
Sponsored Awards -if any

Mr. Kushal Kothapalli
Grade: 8  Project Type:  Team
Project Title:  Amazing Wings

OAS AWARD  Excellent
Sponsored Awards -if any

Ms. Sanjana Velu
Grade: 8  Project Type:  Team
Project Title:  The Effects of Different Drinks on Short Term Memory

OAS AWARD  Superior
Sponsored Awards -if any

Maumee Valley Country Day, Toledo

Mr Nipun Jayatissa
Grade: 12  Project Type:  Individual
Project Title:  The Feasibility of Designing a Novel Biosensor to Detect Heart Disease

OAS AWARD  Excellent 134 HM
Sponsored Awards -if any

Mayfield HS, Cleveland

Ms Sraavya Anne
Grade: 10  Project Type:  Individual
Project Title:  Efficacy of Plant Extracts in Alzheimer’s Disease using Transgenic C. elegans

OAS AWARD  Superior
Sponsored Awards -if any

McKinley HS, Canton

Mr. Shurqran Uldeen Al-Saffat
Grade: 12  Project Type:  Individual
Project Title:  Material Stress Testing

OAS AWARD  Good
Sponsored Awards -if any
<table>
<thead>
<tr>
<th>Mentor HS, Mentor</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Rachel Kathryn Martin</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 11</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: Analyzation of Local Factors of Parental Immunization Stance to Increase Efficiency of Immunization Programs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ms. Amanda Marie Miles</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 11</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: CAR T: Revolutionary Immunotherapy Treating Lymphoma</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ms. Clara Rykaczewski</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: The Advancement of Emotional Intelligence in Doctoral Physical Therapy Students</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td>023 1ST 028 1ST</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mr. Andy Smith</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 11</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: The effects of environmental factors on phosphorus leaching from Lake Erie soil</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td>019 SCH 079 HM 090 2ND 192 1ST</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Miami Valley Career Tech Ctr, Clayton</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Haley Marie Brown</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: Video Modeling Against Technical Work</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ms Nikita Lee Brown</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: The Effects of Physical Activity on Cognitive Function</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ms Olivia M Jones</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: Muscle Activation and Peak Power</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ms. Shaianne Marie McGlaughlin</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: Effects of breathing on the body</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>School Name</td>
<td>Award</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Miami Valley Career Tech Ctr, Clayton</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Ms. Taylor Renee Schumacher</td>
<td></td>
</tr>
<tr>
<td>Grade: 12</td>
<td>Project Type:</td>
</tr>
<tr>
<td>Project Title:</td>
<td>Elderly Neurobics</td>
</tr>
<tr>
<td>Ms. Melissa Elizabeth Siler</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Grade: 11</td>
<td>Project Type:</td>
</tr>
<tr>
<td>Project Title:</td>
<td>The Effects of Thermotherapy and Cryotherapy on Jumping and Sprinting</td>
</tr>
<tr>
<td>Midnimo Cross Cultural Comm Cntr, Columbus</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Ms. Rahma Hirsi</td>
<td></td>
</tr>
<tr>
<td>Grade: 8</td>
<td>Project Type:</td>
</tr>
<tr>
<td>Project Title:</td>
<td>5 second rule</td>
</tr>
<tr>
<td>Ms. Hafsa Warfa</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Grade: 8</td>
<td>Project Type:</td>
</tr>
<tr>
<td>Project Title:</td>
<td>5 second rule</td>
</tr>
<tr>
<td>Miller South Visual &amp; Performing Arts, Akron</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Ms. Zora Ase' Natrice Brown</td>
<td></td>
</tr>
<tr>
<td>Grade: 7</td>
<td>Project Type:</td>
</tr>
<tr>
<td>Project Title:</td>
<td>What's In My Water</td>
</tr>
<tr>
<td>Ms. Danelle Jasmin Byun-Johnson</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Grade: 7</td>
<td>Project Type:</td>
</tr>
<tr>
<td>Project Title:</td>
<td>In the World of Bugs</td>
</tr>
<tr>
<td>Milton-Union MS, W Milton</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>Mr. Bryson Thomas Bailey</td>
<td></td>
</tr>
<tr>
<td>Grade: 7</td>
<td>Project Type:</td>
</tr>
<tr>
<td>Project Title:</td>
<td>Save Your Bacon</td>
</tr>
<tr>
<td>School</td>
<td>OAS AWARD</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Milton-Union MS, W Milton</td>
<td>Superior</td>
</tr>
<tr>
<td>Mr. Liam Hartley</td>
<td></td>
</tr>
<tr>
<td>Ms. Megan Grove</td>
<td>Good</td>
</tr>
<tr>
<td>Ms. Lauren Johnson</td>
<td>Good</td>
</tr>
<tr>
<td>Minford HS, Minford</td>
<td>Excellent</td>
</tr>
<tr>
<td>Ms. Lorelei Grace Martin</td>
<td></td>
</tr>
<tr>
<td>Mr. Dutch Douglas Byrd</td>
<td>Excellent</td>
</tr>
<tr>
<td>Mr. John Steven Miller</td>
<td>Excellent</td>
</tr>
<tr>
<td>Minford MS, Minford</td>
<td>Superior</td>
</tr>
<tr>
<td>Mr. Briar VanSickle</td>
<td></td>
</tr>
<tr>
<td>School</td>
<td>Project Title</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>----------------------------------------------------</td>
</tr>
<tr>
<td>Monroe JS, Monroe</td>
<td>First responded 2.0</td>
</tr>
<tr>
<td>Ms. Emerson Dawn Kelly</td>
<td>Bath Bombs and Beyond</td>
</tr>
<tr>
<td>Mother Teresa Catholic, Liberty Twp</td>
<td>Which fuel mixture creates the highest thrust?</td>
</tr>
<tr>
<td>Mr. Carter Bohrofen</td>
<td>Which type of water will produce the tallest plant?</td>
</tr>
<tr>
<td>Ms. Audrey Edwards</td>
<td>A Study of the Placebo Effect</td>
</tr>
<tr>
<td>Mr. Brady Fitzpatrick</td>
<td>What do your beans like to drink</td>
</tr>
<tr>
<td>Ms. Renee Michele Mansour</td>
<td>Do organic berries mold more than non-organic berries?</td>
</tr>
<tr>
<td>Mr. Aiden Alan Povse</td>
<td>H2O What's the Difference</td>
</tr>
</tbody>
</table>
Mother Teresa Catholic, Liberty Twp

Mr. Brian Robert Rudie

Project Title: Is vaping better or worse than smoking?
Grade: 7  Project Type: Individual
OAS AWARD  Sponsored Awards -if any
Superior  246 1ST  250

Ms. Georgia Elizabeth Schaefer

Project Title: Does Fabric Softener Affect the Flammability of Fabric?
Grade: 7  Project Type: Individual
OAS AWARD  Sponsored Awards -if any
Excellent

Mr. Evan Scott

Project Title: Expensive Baseball Bat vs. Inexpensive Baseball Bat
Grade: 7  Project Type: Individual
OAS AWARD  Sponsored Awards -if any
Superior  067 2ND  250

Mr. Nicholas Stephen Shutte

Project Title: What Style of Book helps Retain Information the Best
Grade: 7  Project Type: Individual
OAS AWARD  Sponsored Awards -if any
Superior  250

Ms. Reagan Kathleen Sinnott

Project Title: Which dish soap is the most effective?
Grade: 7  Project Type: Individual
OAS AWARD  Sponsored Awards -if any
Excellent

Ms. Taylor Mary Williams

Project Title: A study of which type of ice pack most efficiently cools
Grade: 7  Project Type: Individual
OAS AWARD  Sponsored Awards -if any
Superior  250

Mount Orab MS, Mount Orab

Ms. Hannah Tracey Griffith

Project Title: Make More Milk
Grade: 5  Project Type: Individual
OAS AWARD  Sponsored Awards -if any
Superior

National Inventor's Hall of Fame MS, Akron

Mr. David Bukowski

Project Title: Houston We Have Ignition
Grade: 6  Project Type: Individual
OAS AWARD  Sponsored Awards -if any
Excellent
# State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

## National Inventor's Hall of Fame MS, Akron

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr Nicholas Cribbet</td>
<td>7</td>
<td>Individual</td>
<td>How Chemicals Affect Roller Coaster Trains</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Mr. Jaeden Michael Dancy</td>
<td>5</td>
<td>Individual</td>
<td>The Destruction of Styrofoam</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Ms. Abigail Naomi Gibbons</td>
<td>8</td>
<td>Individual</td>
<td>What Soap Cleans Bird Feathers the Best?</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Mr. Brock Edward Gray</td>
<td>5</td>
<td>Individual</td>
<td>Heads Up: Speed of Different Types of Balls</td>
<td>Superior</td>
<td>246 1ST</td>
</tr>
<tr>
<td>Mr. Nathan Scott Jones</td>
<td>7</td>
<td>Individual</td>
<td>How Could Perpetual Motion Impact Technology?</td>
<td>Superior</td>
<td>108 GOOD</td>
</tr>
<tr>
<td>Ms. Isabella Juliet Rambler</td>
<td>7</td>
<td>Individual</td>
<td>Why I Ordered E.coli Off the Internet</td>
<td>Superior</td>
<td>087 1ST</td>
</tr>
<tr>
<td>Ms. Italy Danae-Marie Simmons</td>
<td>7</td>
<td>Individual</td>
<td>Does Age Affect Your Reaction Time?</td>
<td>No Show</td>
<td></td>
</tr>
<tr>
<td>Mr. Jadon Simpkins</td>
<td>5</td>
<td>Individual</td>
<td>The Floating Egg</td>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>
# State Science Day - May 11, 2019

Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority

Hosted by The Ohio State University

## National Inventor's Hall of Fame MS, Akron

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Isabelle Strobel</td>
<td>Superior</td>
<td>221 1ST 245 10TH</td>
</tr>
<tr>
<td>Grade 6</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: <em>Exoskin to Improve the Sense of Touch in juvenile Prosthetics</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Paige Catherine Swaney</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade 6</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: <em>Colorful Solar Power</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Pyper Harlowe Taylor</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade 5</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: <em>Can't Stand The Heat; Best Wood To Burn</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr Darrell Lee Davis</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade 10</td>
<td>Project Type: Team</td>
<td></td>
</tr>
<tr>
<td>Project Title: <em>Project Clean The Air</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr Jordan Elijah Dickerson</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade 10</td>
<td>Project Type: Team</td>
<td></td>
</tr>
<tr>
<td>Project Title: <em>Project Clean The Air</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## New Albany Intermediate School, New Albany

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Yashas Krishna Devulapally</td>
<td>Superior</td>
<td>246 1ST</td>
</tr>
<tr>
<td>Grade 5</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: <em>What's the best antibacterial agent?</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Jackson M Goodman</td>
<td>Excellent</td>
<td>028 1ST</td>
</tr>
<tr>
<td>Grade 5</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: <em>Problem Solving Abilities</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Wolfie Howe</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade 5</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title: <em>Baseball Exit Velocity</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**New Albany Intermediate School, New Albany**

<table>
<thead>
<tr>
<th>Name</th>
<th>Award Level</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Sarah Krzeminski</td>
<td>Excellent</td>
<td>Can Horse Manure Be Used as an Energy Source?</td>
<td>5</td>
<td>Individual</td>
<td></td>
</tr>
<tr>
<td>Ms. Rachel Maletz</td>
<td>Superior</td>
<td>Can You Generate Power By Taking A Shower?</td>
<td>6</td>
<td>Individual</td>
<td></td>
</tr>
<tr>
<td>Ms. Lucy Elizabeth Naumoff</td>
<td>Superior</td>
<td>Bacteria on Everyday Surfaces</td>
<td>5</td>
<td>Individual</td>
<td></td>
</tr>
<tr>
<td>Ms. Dana Ioana Stan</td>
<td>Superior</td>
<td>Projectile Motion</td>
<td>6</td>
<td>Individual</td>
<td>239 SCH 250</td>
</tr>
<tr>
<td>Ms. Nala Chebi</td>
<td>Superior</td>
<td>Does your age or gender affect your memory?</td>
<td>5</td>
<td>Team</td>
<td></td>
</tr>
<tr>
<td>Ms. Sreshta Rao Erravelli</td>
<td>Superior</td>
<td>Does your age or gender affect your memory?</td>
<td>5</td>
<td>Team</td>
<td></td>
</tr>
<tr>
<td>Mr. Adam Peter Kocian</td>
<td>Excellent</td>
<td>The fruit battery project</td>
<td>5</td>
<td>Team</td>
<td></td>
</tr>
<tr>
<td>Mr. William McCloud</td>
<td>Excellent</td>
<td>Homopolar Motors</td>
<td>5</td>
<td>Team</td>
<td></td>
</tr>
</tbody>
</table>
# State Science Day - May 11, 2019

Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority

Hosted by The Ohio State University

## New Albany Intermediate School, New Albany

**Mr. Samuel Melick**

- Grade: 5
- Project Type: Team
- Project Title: The fruit battery project

**OAS AWARD**

- Excellent

**Sponsored Awards - if any**

## New Albany Intermediate School, New Albany

**Mr. Nick Hudson Palmer**

- Grade: 5
- Project Type: Team
- Project Title: The fruit battery project

**OAS AWARD**

- Excellent

**Sponsored Awards - if any**

## New Albany Intermediate School, New Albany

**Mr. Leo Yoder**

- Grade: 5
- Project Type: Team
- Project Title: Homopolar Motors

**OAS AWARD**

- Excellent

**Sponsored Awards - if any**

## New Albany MS, New Albany

**Ms Nithya Guduri**

- Grade: 7
- Project Type: Individual
- Project Title: Are Your Eyes Playing Tricks on You?

**Newark HS, Newark**

**Ms. Lisa Siya Liu**

- Grade: 9
- Project Type: Individual
- Project Title: The Sensors of Autonomous Vehicles and How They Relate to Data Privacy

**OAS AWARD**

- Excellent

**Sponsored Awards - if any**

## Nightingale Montessori Inc, Springfield

**Ms. Iris Raffensperger**

- Grade: 5
- Project Type: Individual
- Project Title: MOLD!

**OAS AWARD**

- Superior

**Sponsored Awards - if any**

## Nightingale Montessori Inc, Springfield

**Ms. Magnolia Rodriguez**

- Grade: 5
- Project Type: Individual
- Project Title: Heart Rate Per Exercise

**OAS AWARD**

- Excellent

**Sponsored Awards - if any**
Noble Academy - Cleveland, Euclid

Ms. Leilani Belcher
Grade: 6  Project Type: Individual
Project Title: What is the best way to clean a toothbrush

North Adams ES, Seaman

Ms. Anna Armstrong
Grade: 6  Project Type: Individual
Project Title: Which Airplane Will Go The Distance

Mr. Xander Paul Beam
Grade: 5  Project Type: Individual
Project Title: Diapers: Which Brand Is Best?

Northwestern ES, W Salem

Ms. Kaylee Ann Cherry
Grade: 5  Project Type: Individual
Project Title: Feeling the Burn

Mr. Asher Erf
Grade: 5  Project Type: Individual
Project Title: Speaker Power!

Ms. Kate Marie Johnson
Grade: 5  Project Type: Individual
Project Title: The Strength of an Egg

Northwestern HS, W Salem

Mr. Trenton Paul Boatner
Grade: 12  Project Type: Individual
Project Title: Smart Armor
Northwestern HS, W Salem

Ms. Grace Marie Chupp
Grade: 12  Project Type: Individual
Project Title: Using the Simon Effect and the Stroop Effect to Determine How High School Practices Affect Reaction Time

OAS AWARD  Excellent
Sponsored Awards -if any

Ms. Mackenzi Jewell Gray
Grade: 12  Project Type: Individual
Project Title: Using the Stroop Effect to Show Brain Development in Young Adults According to Reaction and Perception Time

OAS AWARD  Superior
Sponsored Awards -if any

Ms. Katherine Koontz
Grade: 12  Project Type: Individual
Project Title: The Ability of Probiotic Bacteria to Metabolize Gluten

OAS AWARD  Superior 148 1ST
Sponsored Awards -if any

Ms. Brianna Valentina Shearer
Grade: 12  Project Type: Individual
Project Title: The Effects of Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) on Heart Rate

OAS AWARD  Excellent
Sponsored Awards -if any

Ms. Jadah Smith
Grade: 12  Project Type: Individual
Project Title: The Effects Electronic Nicotine Delivery Devices Have on Living Organisms

OAS AWARD  Excellent
Sponsored Awards -if any

Mr. Skylar Thomas Dawson
Grade: 12  Project Type: Team
Project Title: The Grocery Grabber

OAS AWARD  Excellent
Sponsored Awards -if any

Ms. Kaylie Dye
Grade: 12  Project Type: Team
Project Title: The Grocery Grabber

OAS AWARD  Excellent
Sponsored Awards -if any

Northwestern MS, W Salem

Ms. Quinn Avery Fast
Grade: 7  Project Type: Individual
Project Title: Hydrochloric Acid vs Allergy Pills

OAS AWARD  Excellent
Sponsored Awards -if any
### Northwestern MS, W Salem

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award Level</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Sophia Linder</td>
<td>7</td>
<td>Individual</td>
<td>Does Motor Oil Kill Bacteria?</td>
<td>Excellent</td>
<td>Sponsored Awards</td>
</tr>
</tbody>
</table>

### Mr. Gino Anthony Guidetti

<table>
<thead>
<tr>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award Level</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Team</td>
<td>More Guns More Funs</td>
<td>Excellent</td>
<td>Sponsored Awards</td>
</tr>
</tbody>
</table>

### Mr. Morgan Steven Murphy

<table>
<thead>
<tr>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award Level</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Team</td>
<td>More Guns More Funs</td>
<td>Excellent</td>
<td>Sponsored Awards</td>
</tr>
</tbody>
</table>

### Notre Dame Jr/Sr HS, Portsmouth

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award Level</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Viviana Wheeler</td>
<td>9</td>
<td>Individual</td>
<td>Why Vape?</td>
<td>Superior</td>
<td>Sponsored Awards</td>
</tr>
</tbody>
</table>

### Notre Dame School, Chardon

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award Level</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Sydney Meyela Atkinson</td>
<td>7</td>
<td>Individual</td>
<td>Serve It Up! Does Air Pressure Matter in Volleyball?</td>
<td>Superior</td>
<td>Sponsored Awards</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award Level</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Jacklyn Rulison</td>
<td>6</td>
<td>Individual</td>
<td>Making a Better Brush</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>

### Oakstone Academy, Westerville

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award Level</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Noah James Howlett</td>
<td>8</td>
<td>Individual</td>
<td>The Attention Hub</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>School</td>
<td>OAS Award</td>
<td>Sponsored Awards -if any</td>
<td>Grade</td>
<td>Project Type</td>
<td>Project Title</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------</td>
<td>--------------------------</td>
<td>-------</td>
<td>--------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Oakwood HS, Dayton</td>
<td>Superior</td>
<td>070 1st</td>
<td>11</td>
<td>Individual</td>
<td>The Effect of Environmental Conditions on Lightning Formation</td>
</tr>
<tr>
<td>Oakwood MS, Canton</td>
<td>No Show</td>
<td></td>
<td>8</td>
<td>Individual</td>
<td>The Effect of Different PSI's have on a Football</td>
</tr>
<tr>
<td></td>
<td>Excellent</td>
<td></td>
<td>7</td>
<td>Individual</td>
<td>The Effect Ink Color Has On Memory</td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td></td>
<td>7</td>
<td>Individual</td>
<td>How does the reduction of frontal area affect the drag of an object?</td>
</tr>
<tr>
<td></td>
<td>No Show</td>
<td></td>
<td>8</td>
<td>Individual</td>
<td>Do boys and girls have the same lung capacity?</td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td></td>
<td>8</td>
<td>Individual</td>
<td>The Strongest 3D Shape</td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td></td>
<td>8</td>
<td>Individual</td>
<td>Does a Cell Phone Conversation Affect Reaction Time</td>
</tr>
<tr>
<td>Olentangy HS, Lewis Center</td>
<td>Superior</td>
<td></td>
<td>11</td>
<td>Individual</td>
<td>A Novel Approach to Enhancing Surgical Training and Procedures Using Augmented Reality</td>
</tr>
</tbody>
</table>
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Olentangy HS, Lewis Center

Ms. Katherine Geniusz
OAS AWARD: Superior
Grade: 12
Project Type: Individual
Project Title: Which is the Best Face Wash?: Antimicrobial Effects of Facial Cleanser

Ms. Dheekshita Nelakurti
OAS AWARD: Superior
Grade: 11
Project Type: Individual
Project Title: Detecting Hyperparathyroidism with DNA

Olentangy Liberty HS, Delaware

Ms. Saideepika Rayala
OAS AWARD: Superior
Grade: 11
Project Type: Individual
Project Title: The Effects of Parental Trust on Attitude Adjustment in Adolescents

Mr. Liam Chen
OAS AWARD: Excellent
Grade: 11
Project Type: Team
Project Title: Segmenting CT Slices: Optimization of Lesion Detection through Mask Region-based Convolutional Neural Networks

Mr. Nitish Dashora
OAS AWARD: Excellent
Grade: 11
Project Type: Team
Project Title: Segmenting CT Slices: Optimization of Lesion Detection through Mask Region-based Convolutional Neural Networks

Olentangy Shanahan MS, Lewis Center

Ms Pranjal Agochiya
OAS AWARD: Superior
Grade: 7
Project Type: Individual
Project Title: The Effect of Gas Stations on pH Levels of Soil

Mr. Logan Koegler
OAS AWARD: Superior
Grade: 6
Project Type: Individual
Project Title: Is Fresh Best? Will the freshness of a lemon affect the amount of voltage in a lemon battery?
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Olentangy Shanahan MS, Lewis Center

Ms. Sage E. Parker
Grade: 8  Project Type: Individual
Project Title: Biofuels: Fuel from Food

OAS AWARD
Superior

Sponsored Awards -if any

Ms. Misha Ahuja
Grade: 8  Project Type: Team
Project Title: ASMR and Blood Pressure

OAS AWARD
Superior

Sponsored Awards -if any

Mr. Akaash Balaji
Grade: 7  Project Type: Team
Project Title: Cancer due to genetics and its Prevention

OAS AWARD
Excellent

Sponsored Awards -if any

Ms. Grace Brinkman
Grade: 8  Project Type: Team
Project Title: Gender Susceptibility to Peer Pressure

OAS AWARD
Superior

246 1ST  250

Sponsored Awards -if any

Ms. Meena Kappagantula
Grade: 8  Project Type: Team
Project Title: Gender Susceptibility to Peer Pressure

OAS AWARD
Superior

246 1ST  250

Sponsored Awards -if any

Mr. Arun Meyyappan
Grade: 7  Project Type: Team
Project Title: Cancer due to genetics and its Prevention

OAS AWARD
Excellent

Sponsored Awards -if any

Ms. Emma Pease
Grade: 8  Project Type: Team
Project Title: Gender Susceptibility to Peer Pressure

OAS AWARD
Superior

246 1ST  250

Sponsored Awards -if any

Ms. Sanjana Suresh
Grade: 8  Project Type: Team
Project Title: ASMR and Blood Pressure

OAS AWARD
Excellent

Sponsored Awards -if any
Ontario HS, Mansfield

Mr. Jason Tan Hui Lin
Grade: 11  Project Type:  Team
Project Title:  Correlations Between Amphibian Populations and Water Chemistry in a Constructed Wetland

Ontario MS, Mansfield

Mr. Hayden Kuenzli
Grade: 6  Project Type:  Individual
Project Title:  Green your PC

Ms. Sky Liu
Grade: 6  Project Type:  Individual
Project Title:  The Eggstraordinary Experiment

Orange HS, Pepper Pike

Mr. Isaac W Jang
Grade: 11  Project Type:  Individual
Project Title:  Effect of Dietary iron on the Intestinal Tumorigenesis

Otis ES, Fremont

Ms. Anisa Killian
Grade: 5  Project Type:  Team
Project Title:  Hydroponic Lettuce
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio
Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Otis ES, Fremont

Mr. Stephen Reiter
Grade: 5  Project Type:  Team
Project Title: Hydroponic Lettuce

OAS AWARD
Excellent
Sponsored Awards -if any

Mr. Logan Tucker
Grade: 5  Project Type:  Team
Project Title: Hydroponic Lettuce

OAS AWARD
Excellent
Sponsored Awards -if any

Ottawa Hills Junior/Senior HS, Ottawa Hills

Mr. William James Berschback
Grade: 9  Project Type:  Individual
Project Title: The Effect of a Soccer Ball’s Pressure on Bounce Height

OAS AWARD
Superior
Sponsored Awards -if any

Ms Priya Bhatt
Grade: 11  Project Type:  Individual
Project Title: The Wound Healing Project: RhoG’s Affect on Cellular Migration

OAS AWARD
Superior
Sponsored Awards -if any

Ms. Prashamsa Koirala
Grade: 9  Project Type:  Individual
Project Title: The effect of cadmium telluride thickness on the current and voltage output of thin-film solar cells

OAS AWARD
Superior
Sponsored Awards -if any

252 SCH

Ms. Elise K Denk
Grade: 9  Project Type:  Team
Project Title: How Does The pH of Water Affect Its Taste?

OAS AWARD
Superior
Sponsored Awards -if any

Ms. Amanda Carol O'Loughlin
Grade: 9  Project Type:  Team
Project Title: Brain Freeze Treatment Methods

OAS AWARD
Superior
Sponsored Awards -if any

Ms. Ava Nicole Porter
Grade: 9  Project Type:  Team
Project Title: Brain Freeze Treatment Methods

OAS AWARD
Superior
Sponsored Awards -if any
### State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

<table>
<thead>
<tr>
<th>School</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Sponsorship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ottawa Hills Junior/Senior HS, Ottawa Hills</td>
<td>How Does The pH of Water Affect Its Taste?</td>
<td>9</td>
<td>Team</td>
<td>OAS AWARD Superior Harold C. Shaw Outstanding School Award Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Faith Yeji Seo</td>
<td></td>
<td></td>
<td></td>
<td>Ottawa Hills Junior/Senior HS, Ottawa Hills</td>
</tr>
<tr>
<td>Ottoville ES, Ottoville</td>
<td>The Effects of Fertilizer Runoff Containing Phosphorus, Nitrogen, and Potash on Amoeba Proteus</td>
<td>8</td>
<td>Individual</td>
<td>OAS AWARD Superior 019 SCH Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Julia Elizabeth Schleeter</td>
<td></td>
<td></td>
<td></td>
<td>Ottoville ES, Ottoville</td>
</tr>
<tr>
<td>Ottoville HS, Ottoville</td>
<td>How Well Does Reverse Osmosis Work?</td>
<td>9</td>
<td>Individual</td>
<td>OAS AWARD Superior Sponsored Awards -if any</td>
</tr>
<tr>
<td>Mr Chad Schnipke</td>
<td></td>
<td></td>
<td></td>
<td>Ottoville HS, Ottoville</td>
</tr>
<tr>
<td>Ms Hannah Marie Wenzlick</td>
<td>The Ability to Distinguish Words and Colors With Age</td>
<td>8</td>
<td>Individual</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Our Lady Of Perpetual Help, Grove City</td>
<td></td>
<td>7</td>
<td>Individual</td>
<td>OAS AWARD Superior Harold C. Shaw Outstanding School Award Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Amor Justin Maker</td>
<td>Pareidolia, hear it!</td>
<td></td>
<td></td>
<td>Our Lady Of Perpetual Help, Grove City</td>
</tr>
<tr>
<td>Ms. Dorothy Oberting</td>
<td>Does Music Affect Short-Term Memory</td>
<td>7</td>
<td>Individual</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Mr. Joshua Matthew Richter</td>
<td>The Perfect Shot</td>
<td>7</td>
<td>Individual</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Location</td>
<td>Project Title</td>
<td>Grade</td>
<td>Project Type</td>
<td>Award Level</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>-------</td>
<td>---------------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>Our Lady Of Perpetual Help, Grove City</strong></td>
<td><em>Which is Better Visual or Auditory Memory?</em></td>
<td>7</td>
<td>Individual</td>
<td>Superior</td>
</tr>
<tr>
<td><strong>Ms. Renee Smith</strong></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td><strong>Our Lady Of Perpetual Help, Grove City</strong></td>
<td><em>Does the size of compost bin affect how much material gets composted?</em></td>
<td>7</td>
<td>Individual</td>
<td>Superior</td>
</tr>
<tr>
<td><strong>Ms. Isabella Lynne Tigner</strong></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td><strong>Patrick Henry HS, Hamler</strong></td>
<td><em>The Effects of Different Colors on Heart Rate and Heart Rate Variability</em></td>
<td>11</td>
<td>Individual</td>
<td>Superior</td>
</tr>
<tr>
<td><strong>Ms. Haley Marie Crouch</strong></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td><strong>Peebles ES, Peebles</strong></td>
<td><em>Rethink Your Drink</em></td>
<td>5</td>
<td>Individual</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Ms. Kiera Abbigale Scott</strong></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td><strong>Peebles HS, Peebles</strong></td>
<td><em>Leave NO Trace</em></td>
<td>7</td>
<td>Individual</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Ms Caydence Marianne Carroll</strong></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td><strong>Ms. Izzy Marie Scott</strong></td>
<td><em>How Long Will It Last?</em></td>
<td>7</td>
<td>Individual</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Peebles HS, Peebles</strong></td>
<td><em>Boil Alert</em></td>
<td>8</td>
<td>Individual</td>
<td>Excellent</td>
</tr>
<tr>
<td><strong>Ms Vanessa Trotter</strong></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>
### State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

<table>
<thead>
<tr>
<th>School</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>OAS Award</th>
<th>Sponsored Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peebles HS, Peebles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ms. Elizabeth J Gerth</td>
<td>7</td>
<td>Team</td>
<td>Falling Foundation</td>
<td>Excellent</td>
<td>139 3RD</td>
</tr>
<tr>
<td>Ms. Gracelynn E Seaman</td>
<td>7</td>
<td>Team</td>
<td>Falling Foundation</td>
<td>Excellent</td>
<td>139 3RD</td>
</tr>
<tr>
<td>Pettisville HS, Pettisville</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ms Jessica McWatters</td>
<td>11</td>
<td>Individual</td>
<td>Prevalence of Cryptosporidium in Various Ages of Calves</td>
<td>Superior</td>
<td>050 2ND</td>
</tr>
<tr>
<td>Ms. Madeline Shumaker</td>
<td>10</td>
<td>Individual</td>
<td>The Effect of Water Transparency on the Growth of Algae</td>
<td>Excellent</td>
<td>019 SCH</td>
</tr>
<tr>
<td>Mr. Baden Skates</td>
<td>9</td>
<td>Individual</td>
<td>Comparison of Standard vs Custom 3D Printed Maple Tapping Spiles</td>
<td>Superior</td>
<td>136 HM</td>
</tr>
<tr>
<td>Phoenix MS, Worthington</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mr. Nidin R.K. Nair</td>
<td>8</td>
<td>Individual</td>
<td>CHECK BEFORE YOU STEP</td>
<td>Superior</td>
<td>245 7TH 250</td>
</tr>
<tr>
<td>Piqua Catholic ES, Piqua</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ms. Miley Rae Heffelfinger</td>
<td>6</td>
<td>Individual</td>
<td>Does the Color of Ink Affect how People Identify the Word?</td>
<td>No Show</td>
<td></td>
</tr>
</tbody>
</table>
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

<table>
<thead>
<tr>
<th>Location</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portsmouth STEM Academy, Portsmouth</td>
<td>Memory Maze</td>
<td>11</td>
<td>Individual</td>
<td>Excellent</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rad-ishes</td>
<td>11</td>
<td>Team</td>
<td>Excellent</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Put-In-Bay HS, Put-In-Bay</td>
<td>Essential Oils vs Antibiotics: Combating Antibiotic-Resistant Bacteria</td>
<td>11</td>
<td>Individual</td>
<td>Superior</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A.I. Evolved</td>
<td>12</td>
<td>Individual</td>
<td>Excellent</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The Inhibiting Effects of Over-the-Counter Acne Medications on Propionibacterium acnes Growth</td>
<td>10</td>
<td>Individual</td>
<td>Excellent</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regina Coeli, Toledo</td>
<td>Which Water is Best for You?</td>
<td>6</td>
<td>Individual</td>
<td>Excellent</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>072 2ND</td>
</tr>
</tbody>
</table>
**State Science Day - May 11, 2019**
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

**Reynoldsburg HS eSTEM, Reynoldsburg**

**Mr. Grant Boone**

Grade: 11  
Project Type: Individual  
Project Title: *Aquabot: Automatic Gardening System*

**Ridgewood School, Springfield**

**Ms. Mary McKenzie Cunningham**

Grade: 5  
Project Type: Individual  
Project Title: *Choosing Cheesecakes*

**Ms. Elise Hess**

Grade: 5  
Project Type: Individual  
Project Title: *Positively Magnetic!*

**Mr. Gary Noble Iddings**

Grade: 6  
Project Type: Individual  
Project Title: *What the Hertz?*

**Mr. Arin James Simmons**

Grade: 8  
Project Type: Individual  
Project Title: *Distracted Driver*

**Ripley-Union-Lewis-Huntington MS, Aberdeen**

**Ms. Mahayla Dragoo**

Grade: 8  
Project Type: Individual  
Project Title: *Moldy Mess*

**River Valley HS, Bidwell**

**Mr. Isaac Joseph Barrett**

Grade: 10  
Project Type: Individual  
Project Title: *How light Color affects the growth rate of Marigold plants*
River View HS, Warsaw

Mr Alex Papadopol
Grade: 9  Project Type: Individual
Project Title: Electrifying Bacteria

OAS AWARD
Superior

Sponsored Awards -if any

River View MS, Warsaw

Ms Caily Shriver
Grade: 7  Project Type: Individual
Project Title: Measuring Blood Spatters: Splat!

OAS AWARD
Excellent

Sponsored Awards -if any

Ms Emma C Ward
Grade: 8  Project Type: Individual
Project Title: Whats the crud on my spud

OAS AWARD
Excellent

Sponsored Awards -if any

Rushmore ES, Huber Hts

Ms. Catherine Nicole Zbinden
Grade: 5  Project Type: Individual
Project Title: Salt Inhibits the Growth of E. coli

OAS AWARD
Excellent

Sponsored Awards -if any

Ruskin PreK-6 School, Dayton

Ms. Chloe Ryan
Grade: 5  Project Type: Individual
Project Title: The Race of the Sweeteners

OAS AWARD
Excellent

Sponsored Awards -if any

Rutherford B Hayes HS, Delaware

Mr Ethan Hazleton
Grade: 11  Project Type: Individual
Project Title: Energy Efficient Temperature Controlled Fan

OAS AWARD
Superior

Sponsored Awards -if any

Ms Rena Ouyang
Grade: 10  Project Type: Individual
Project Title: Making Meals of Polystyrene: How Tenebrio molitor Can Help Reduce Plastic Pollution

OAS AWARD
Superior

Sponsored Awards -if any
## Rutherford B Hayes HS, Delaware

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsored Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Caylee Bree Combs</td>
<td>10</td>
<td>Team</td>
<td>How Much Runoff is Too Much for Duckweed?</td>
<td>Superior</td>
<td>086 3RD</td>
</tr>
</tbody>
</table>

## Sacred Heart of Jesus, Wadsworth

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsored Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr Carson Alexander Bernard</td>
<td>8</td>
<td>Individual</td>
<td>Using a Laser to Measure the Speed of Light in Gelatin</td>
<td>Excellent</td>
<td>067 1ST</td>
</tr>
<tr>
<td>Ms. Sarah Burns</td>
<td>7</td>
<td>Individual</td>
<td>Resonance: Musical Instrument Soundboards and Alternative Materials</td>
<td>Excellent</td>
<td>067 1ST</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsored Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Jack Edwards</td>
<td>8</td>
<td>Individual</td>
<td>Effects of Counterweight Mass on the Distance of Projectiles Launched by a Trebuchet</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Ms. Claire McNeill</td>
<td>7</td>
<td>Individual</td>
<td>Effects of White Rot Fungus on the Production of Biogas</td>
<td>Superior</td>
<td>250</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsored Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Patrick Joseph Witschey</td>
<td>8</td>
<td>Individual</td>
<td>The effects of glyphosate on worms</td>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>

## Sardinia ES, Sardinia

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsored Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Rylie Ann Cahall</td>
<td>5</td>
<td>Individual</td>
<td>Water Quality</td>
<td>Superior</td>
<td>072 3RD 246 1ST</td>
</tr>
</tbody>
</table>
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Shaw ES, Beavercreek

Ms. Humeyra Sena Ada
Grade: 5  Project Type: Team
Project Title: How does friction affect the motion of a car?

Ms. Elifazra Pala
Grade: 5  Project Type: Team
Project Title: How does friction affect the motion of a car?

Solon HS, Solon

Ms. Nicole Bederman
Grade: 8  Project Type: Individual
Project Title: The effect of storage environment on vitamin c content of orange juice

Mr. Edward Dan
Grade: 11  Project Type: Individual
Project Title: Designing a New Coating Device and Fabrication Process to Develop Ceramic Microtubes

Ms. Arya Sambandan
Grade: 9  Project Type: Individual
Project Title: Cyber Security Vulnerabilities in Connected Medical Devices – Version 2.0

Solon MS, Solon

Mr. Dev Sanjay Ahuja
Grade: 8  Project Type: Individual
Project Title: Neutralizing E. Coli with Silver Nanoparticles

Ms. Meena Chandrasekharan
Grade: 8  Project Type: Individual
Project Title: Effect of Circadian Rhythm on Root Growth during Seed Germination
Solon MS, Solon

Ms. Mehak Sankhla
Grade: 8  Project Type: Individual
Project Title: Does The Clothing Choice Affect What Viewers Think of the Possessor?

Mr. Vikram Sundaram
Grade: 8  Project Type: Individual
Project Title: FRUIT AND VEGETABLE POWERED BATTERIES - ACIDITY VS VOLTAGE

St Agatha, Columbus

Mr. James Graff
Grade: 7  Project Type: Individual
Project Title: Topsy Turvy Turing Test

Ms. Carol Rekow
Grade: 7  Project Type: Individual
Project Title: My Tone of Voice Will Change Your Choice

St Albert The Great, N Royalton

Mr. Robert Thomas Boyce
Grade: 8  Project Type: Individual
Project Title: Sugar Crash

Ms. Julia Mary Olle
Grade: 8  Project Type: Individual
Project Title: That's a real smile! Or is it?

St Aloysius, Bowling Green

Ms. Emi Anne Castillo
Grade: 8  Project Type: Individual
Project Title: Blast Away Bacteria
### State Aloysius, Bowling Green

**Mr. Isaac James Gladden**
- **Grade:** 8
- **Project Type:** Individual
- **Project Title:** The Effect of Egg Substitutes

**OAS AWARD**
- **Sponsored Awards -if any:** Excellent

**Ms. Sarah Lynn Konecny**
- **Grade:** 8
- **Project Type:** Individual
- **Project Title:** Marking It Up

**OAS AWARD**
- **Sponsored Awards -if any:** Superior

**Mr. Matt James Robinette**
- **Grade:** 8
- **Project Type:** Individual
- **Project Title:** What's The Difference?

**OAS AWARD**
- **Sponsored Awards -if any:** Superior

**Mr. Adam James Sadowski**
- **Grade:** 8
- **Project Type:** Individual
- **Project Title:** Renewable or Nonrenewable? You Decide.

**OAS AWARD**
- **Sponsored Awards -if any:** Excellent
- **108 GOOD**

### St Ambrose, Brunswick

**Mr. John M Burrell**
- **Grade:** 5
- **Project Type:** Individual
- **Project Title:** Ants: They Get "Bugged" Out by Certain Colors of Food

**OAS AWARD**
- **Sponsored Awards -if any:** Excellent

### St Andrew, Columbus

**Ms. Katherine Braidech**
- **Grade:** 8
- **Project Type:** Individual
- **Project Title:** How Music Affects Heart Rate

**OAS AWARD**
- **Sponsored Awards -if any:** Excellent

**Mr. Owen William Galvin**
- **Grade:** 8
- **Project Type:** Individual
- **Project Title:** Are dogs' mouths safer than human's?

**OAS AWARD**
- **Sponsored Awards -if any:** Excellent

**Ms. Kaitlyn Marie Lauber**
- **Grade:** 8
- **Project Type:** Individual
- **Project Title:** How Music Affects Running

**OAS AWARD**
- **Sponsored Awards -if any:** Superior
- **189 2ND**
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

St Andrew, Columbus

Mr. Ronan Ott
Grade: 8  Project Type: Individual
Project Title: Can Waxworms Clean Up Our Trash?

St Anselm, Chesterland

Mr. Giancarlo Cefaratti
Grade: 6  Project Type: Individual
Project Title: Which Helmet Best Protects Against Concussions?

Ms. Katherine Kent
Grade: 6  Project Type: Individual
Project Title: Bee Alert, Does Your Honey Contain Pesticides?

Ms Elizabeth Kent
Grade: 8  Project Type: Team
Project Title: Can Greens Make The World Go Round? Does Combining Grass Clippings And Algae Produce An Alternative Biofuel?

Ms. Liza Marra
Grade: 8  Project Type: Team
Project Title: Can Greens Make The World Go Round? Does Combining Grass Clippings And Algae Produce An Alternative Biofuel?

Mr. Chase Pirosko
Grade: 6  Project Type: Team
Project Title: How does the length of a golf club affect the distance a golf ball will travel?

Mr. Gavin Sheppard
Grade: 6  Project Type: Team
Project Title: How does the length of a golf club affect the distance a golf ball will travel?
### St Anthony Of Padua, Columbus Grove

**Mr. Nathan Kamphaus**  
*OAS AWARD*  
Excellent  
Sponsored Awards -if any  
061 3RD  
Grade: 7  
Project Type: Individual  
*Project Title:* How does the bridge structural design affect its weight bearing capacity?

### St Anthony Of Padua, Lorain

**Ms. Kaylie Jeanne Rawlins**  
*OAS AWARD*  
Excellent  
Sponsored Awards -if any  
Grade: 8  
Project Type: Individual  
*Project Title:* Stress Affects Memory?

**Ms. Olivia Schmitz**  
*OAS AWARD*  
Excellent  
Sponsored Awards -if any  
Grade: 8  
Project Type: Individual  
*Project Title:* Mind and Time: Do They Connect

### St Benedict Catholic School, Toledo

**Ms. Natalie Carol Rekart**  
*OAS AWARD*  
Superior  
Sponsored Awards -if any  
145 3RD  148 1ST  
Grade: 8  
Project Type: Individual  
*Project Title:* What are the benefits of Curcumin against tumor progression?

### St Christopher, Vandalia

**Ms. Emma Hale**  
*OAS AWARD*  
Excellent  
Sponsored Awards -if any  
Grade: 8  
Project Type: Individual  
*Project Title:* Fresh vs. Frozen

### St Columban, Loveland

**Mr Lucas Mateo Aguilar**  
*OAS AWARD*  
Superior  
Sponsored Awards -if any  
145 2ND  
Grade: 8  
Project Type: Individual  
*Project Title:* Balancing Act

**Ms. Amanda Braig**  
*OAS AWARD*  
Superior  
Sponsored Awards -if any  
Grade: 7  
Project Type: Individual  
*Project Title:* Cool Roofs
### St Columban, Loveland

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Olivia Marie Brinks</td>
<td>8</td>
<td>Individual</td>
<td>Acidic or Alkaline: Which do Plants Prefer?</td>
<td>Superior</td>
<td>246 1ST 250</td>
</tr>
<tr>
<td>Ms. Abigail Elizabeth Kass</td>
<td>7</td>
<td>Individual</td>
<td>Voice Vision or Both</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Mr. Brendan James Mcpherson</td>
<td>7</td>
<td>Individual</td>
<td>Impact of Slope on Landslides</td>
<td>Superior</td>
<td>070 HM</td>
</tr>
<tr>
<td>Ms. Ella Grace Puthoff</td>
<td>7</td>
<td>Individual</td>
<td>Does the Ball Fly When the Temperature Is High?</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Ms Sophie Mae Seavey</td>
<td>8</td>
<td>Individual</td>
<td>Sunscreen Application: Lotion vs. Spray</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Ms Regan O'Hara Sharp</td>
<td>8</td>
<td>Individual</td>
<td>The Impact of Inflammation on Joint Range of Motion</td>
<td>Superior</td>
<td>145 1ST 250 148 2ND</td>
</tr>
<tr>
<td>Ms Ella Grace Skolnicki</td>
<td>8</td>
<td>Individual</td>
<td>Gender Stereotypes in STEM Fields</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Mr Jake Michael Terrell</td>
<td>7</td>
<td>Individual</td>
<td>Biofuel vs. Fossil Fuels: Does the type of fuel powering a car affect how much pollution the car gives off?</td>
<td>Superior</td>
<td>108 HM</td>
</tr>
</tbody>
</table>
# State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

<table>
<thead>
<tr>
<th>School</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Award Rating</th>
<th>Sponsor Awards - if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>St Columban, Loveland</td>
<td>Geometry in Soccer</td>
<td>7</td>
<td>Individual</td>
<td>Excellent</td>
<td>Sponsored Awards</td>
</tr>
<tr>
<td>Mr. Rogelio Agustin Villa</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ms. Jane Walulik</td>
<td>Cream of the Crop: Nutrients in Hydroponics vs. Soil</td>
<td>8</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards</td>
</tr>
<tr>
<td>Ms. Savannah Jean Wilber</td>
<td>Performance; Under Pressure</td>
<td>7</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards</td>
</tr>
<tr>
<td>Mr Nick Jacob Worpenberg</td>
<td>What Are The Affects From Vaping and Smoking?</td>
<td>8</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>St Edward, Ashland</td>
<td>What type of non-dairy milk works best in baking?</td>
<td>6</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Ms. Julia Brauner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sponsored Awards</td>
</tr>
<tr>
<td>Ms. Olivea Katharine Durig</td>
<td></td>
<td>6</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Ms. Autumn King</td>
<td>Roller Coaster Physics, How Do Coasters Loop the Loop</td>
<td>6</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Mr. Austin Stout</td>
<td>How to Cool a Soda Can the Fastest</td>
<td>6</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

St Francis DeSales, Akron

Mr. Aidan John Kish
Grade: 6  Project Type: Individual
Project Title: Hydroponics

OAS AWARD     Sponsored Awards -if any
Excellent

Mr. Jesse Elijah Powers
Grade: 7  Project Type: Individual
Project Title: The Strength of Wooden Bridges

OAS AWARD     Sponsored Awards -if any
Excellent

Mr. Jack Ryan Benoit
Grade: 6  Project Type: Team
Project Title: Green but Clean: An LED Lasers Effect on Bacteria

OAS AWARD     Sponsored Awards -if any
Superior

Mr. Lukas Pasqua Cinko
Grade: 8  Project Type: Team
Project Title: Green but Clean: An LED Lasers Effect on Bacteria

OAS AWARD     Sponsored Awards -if any
Superior

Ms. Aislynn Marie McVicker
Grade: 8  Project Type: Team
Project Title: Rainbow Light

OAS AWARD     Sponsored Awards -if any
Superior

Ms. Moira Patton
Grade: 8  Project Type: Team
Project Title: Rainbow Light

OAS AWARD     Sponsored Awards -if any
Superior

Ms. Natalie Marie Pham
Grade: 8  Project Type: Team
Project Title: Green but Clean: An LED Lasers Effect on Bacteria

OAS AWARD     Sponsored Awards -if any
Superior

Ms. Mackenzie Lynn Wood
Grade: 8  Project Type: Team
Project Title: Rainbow Light

OAS AWARD     Sponsored Awards -if any
Superior
# State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

## St Francis Of Assisi, Gates Mills

<table>
<thead>
<tr>
<th>School</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Gracie Plecha</td>
<td>Now You See It...Or Do You?</td>
<td>7</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Ms. Samantha Jeanne Hampton</td>
<td>Green and Clean?</td>
<td>7</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Mr. Aaron Christopher Kirsch</td>
<td>Rhythm vs Words: Does action affect reaction</td>
<td>7</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Ms. Oliviana Lika</td>
<td>Acid Rain: Fact or Fiction</td>
<td>8</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Mr. Alex Shuran</td>
<td>Taking Flight</td>
<td>7</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Mr. Charles J. Snow</td>
<td>Worth the Wait: Testing Delayed Gratification</td>
<td>8</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Ms. Anna Stankard</td>
<td>Dog Drool Debate: Does Dog Drool Kill Germs?</td>
<td>7</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Mr. Shaun Tabaka</td>
<td>The Science of Baking Bread - The Effects of Sugar on Yeast</td>
<td>6</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio
Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

St Francis Xavier, Medina

Ms. Elinor Beth Varner  
OAS AWARD  
Superior
Sponsored Awards -if any

Grade: 7  
Project Type: Individual
Project Title: Sweet Preservation: Does the Type of Sweetener in a Cookie Affect Mold Growth?

St Gertrude, Cincinnati

Ms. Maya Corsmo  
OAS AWARD  
Superior
Sponsored Awards -if any

Grade: 7  
Project Type: Individual
Project Title: To Eat or Not to Eat - That is the Question

Ms. Madelyn Dickman  
OAS AWARD  
Excellent
Sponsored Awards -if any

Grade: 7  
Project Type: Individual
Project Title: The Birthday Paradox

Mr. Lorenzo Rose  
OAS AWARD  
Superior
Sponsored Awards -if any

Grade: 7  
Project Type: Individual
Project Title: Does Age Affect How Long One Sees an Afterimage

Mr. Nikolas Wibowo  
OAS AWARD  
Superior
Sponsored Awards -if any

Grade: 7  
Project Type: Individual
Project Title: Does the Tempo of Music Affect Memory?

St Helen, Dayton

Mr. Laszlo Kai Hary  
OAS AWARD  
Excellent
Sponsored Awards -if any

Grade: 8  
Project Type: Individual
Project Title: Which flight is Wright?

St Henry HS, St Henry

Ms. Julia Elizabeth Beyke  
OAS AWARD  
Superior
Sponsored Awards -if any

Grade: 12  
Project Type: Individual
Project Title: The Effects of Melatonin on Caffeine-Affected Sleep
# State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

## St Henry HS, St Henry

<table>
<thead>
<tr>
<th>School</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Alexis Elizabeth Heath</td>
<td>Superior</td>
<td>148 2ND</td>
</tr>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Redesign of Hearing Aid Earmolds</td>
<td></td>
</tr>
</tbody>
</table>

## St Hilary, Fairlawn

<table>
<thead>
<tr>
<th>School</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Regan Houser</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 7</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Viscosity Sinuosity</td>
<td></td>
</tr>
</tbody>
</table>

## St John, Marietta

<table>
<thead>
<tr>
<th>School</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Gavin Brooker</td>
<td>No Show</td>
<td></td>
</tr>
<tr>
<td>Grade: 8</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Are More Expensive Golf Balls Worth It</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Jase Dyar</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 6</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>5 Second Rule - to Eat or Not to Eat</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Caleb Schaad</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 5</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>How Bright is Your Bulb</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Addison Strickler</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 5</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Do Different Colors of Crayons Melt Faster</td>
<td></td>
</tr>
</tbody>
</table>

## St John Central, Bellaire

<table>
<thead>
<tr>
<th>School</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Julie Ann Schlanz</td>
<td>Excellent</td>
<td>139 3RD 108 HM</td>
</tr>
<tr>
<td>Grade: 12</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Which Everyday Materials Contain Terrestrial Oil Spills the Best?</td>
<td></td>
</tr>
<tr>
<td>School</td>
<td>Project Title</td>
<td>Grade</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>St John School, Ashtabula</td>
<td>Do Different Genres of Music Affect Concentration Differently?</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>St Joseph Central, Ironton</td>
<td>Text Messaging and Age</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>St Jude, Elyria</td>
<td>Does talking hands-free while driving really cause less distraction than using a hand-held device?</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>St Lawrence, Ironton</td>
<td>Which fruit has the most Vitamin C?</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Does Music Affect a Human’s Heart Rate?</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>What a Drag!</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
St Lawrence, Ironton

Mr. Samuel Walker

Grade: 6  Project Type: Individual  Project Title: Weakened WiFi

OAS AWARD

Sponsored Awards -if any

St Louis ES, Owensville

Mr Benjamin Scheffter

Grade: 8  Project Type: Individual  Project Title: Comparison of Osage-Orange and Peppermint as a Natural Spider Repellent

OAS AWARD

Sponsored Awards -if any

Mr Jayden Trimble

Grade: 8  Project Type: Individual  Project Title: Effect of Bridge Design on Load Bearing Strength

OAS AWARD

Sponsored Awards -if any

Ms Paige Bartlett

Grade: 8  Project Type: Team  Project Title: Down the Drain: Nanosilver vs. Daphnia

OAS AWARD

Sponsored Awards -if any 080 2ND  250

Mr Xavier Carnicom

Grade: 8  Project Type: Team  Project Title: Down the Drain: Nanosilver vs. Daphnia

OAS AWARD

Sponsored Awards -if any 080 2ND  250

St Mary, Chardon

Ms. Elizabeth Passow

Grade: 7  Project Type: Individual  Project Title: Fizztastic Results

OAS AWARD

Sponsored Awards -if any

Ms. Zoe Virant

Grade: 7  Project Type: Individual  Project Title: Effect of Bone Chewing on Bacteria Growth

OAS AWARD

Sponsored Awards -if any

St Mary, Delaware

Mr. Frederick Jozsef Shimp

Grade: 8  Project Type: Individual  Project Title: Do Heavy Metals Affect Grass?

OAS AWARD

Sponsored Awards -if any
St Mary, Lancaster

Ms Lillia Funk
Grade: 8  Project Type: Individual
Project Title: Optical Illusions

OAS AWARD  Superior

Sponsored Awards -if any

Ms. Lydia Marie Martin
Grade: 8  Project Type: Individual
Project Title: Spray-on Vs. Rub-on Sunscreen

OAS AWARD  Excellent

Sponsored Awards -if any

Ms. Lillian Marie Shonebarger
Grade: 8  Project Type: Individual
Project Title: What Fairfield County soil grew mustard plants best?

OAS AWARD  Excellent

Sponsored Awards -if any

St Mary, Marietta

Ms. Sylvia Erdelyi
Grade: 8  Project Type: Individual
Project Title: Does drug-store or professional shampoo work best for color-treated hair?

OAS AWARD  Excellent

Sponsored Awards -if any

St Mary Central, Martins Ferry

Mr Joe Paul Green
Grade: 8  Project Type: Individual
Project Title: Forensic Dentistry

OAS AWARD  Superior

Sponsored Awards -if any

Mr. Ray John Konkoleski
Grade: 5  Project Type: Individual
Project Title: Magnetic Levitation

OAS AWARD  Excellent

Sponsored Awards -if any

Mr Matthias Sacco
Grade: 7  Project Type: Individual
Project Title: Can You Trust A Probiotic Label?

OAS AWARD  Excellent

Sponsored Awards -if any

Mr. Paul William Stecker III
Grade: 5  Project Type: Individual
Project Title: Gauss Rifle: How varying magnetic stages affect energy

OAS AWARD  Excellent

Sponsored Awards -if any
<table>
<thead>
<tr>
<th>School</th>
<th>OAS Award</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>St Mary Central, Martins Ferry</td>
<td></td>
<td>Mr Liam Seigh Tomlin</td>
<td>6</td>
<td>Individual</td>
<td>139 2ND</td>
</tr>
<tr>
<td></td>
<td>OAS AWARD</td>
<td>Project Title: Comparing the Different Burn Rates of Fuels</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sponsored Awards -if any</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td>Ms Ava Zelek</td>
<td>8</td>
<td>Individual</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Project Title: Can Biofilm Growth Be Controlled?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OAS AWARD</td>
<td>Superior</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>St Mary Immaculate Conception, Wooster</td>
<td>Excellent</td>
<td>Ms. Brooke Bowling</td>
<td>6</td>
<td>Individual</td>
<td>239 SCH 250</td>
</tr>
<tr>
<td></td>
<td>OAS AWARD</td>
<td>Project Title: Cyber Security: How Secure Are Your Passwords?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sponsored Awards -if any</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Excellent</td>
<td>Mr Trei Michael Durstine</td>
<td>6</td>
<td>Individual</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OAS AWARD</td>
<td>Project Title: Can Plants Stop Soil Erosion?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sponsored Awards -if any</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td>Ms. Kara Elizabeth Jones</td>
<td>6</td>
<td>Individual</td>
<td>028 2ND</td>
</tr>
<tr>
<td></td>
<td>OAS AWARD</td>
<td>Project Title: What Color of Light is Best for Plant Growth</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sponsored Awards -if any</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td>Mr. Anthony Long</td>
<td>6</td>
<td>Individual</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OAS AWARD</td>
<td>Project Title: Nose Cones and Altitude: It's Rocket Science</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sponsored Awards -if any</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Excellent</td>
<td>Mr. Anthony Robert Tarutani</td>
<td>5</td>
<td>Individual</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OAS AWARD</td>
<td>Project Title: Stealthy Shapes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sponsored Awards -if any</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Excellent</td>
<td>Mr. Gabriel Vossler</td>
<td>5</td>
<td>Individual</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OAS AWARD</td>
<td>Project Title: Pain Management</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
St Michael, Worthington

Mr. Koen Michael Sauer
Grade: 7  Project Type: Individual
Project Title: Areas of Infection

OAS AWARD  Sponsored Awards -if any
Excellent

St Michael Consolidated, Ripley

Ms Gracie Blackburn
Grade: 6  Project Type: Individual
Project Title: Be Loyal to your Soil

OAS AWARD  Sponsored Awards -if any
Superior
079 HM

Mr. Xavier Ernst
Grade: 6  Project Type: Individual
Project Title: Which Wood Burns Fastest? Hard Wood or Soft wood

OAS AWARD  Sponsored Awards -if any
Excellent

Ms Rhiannon Nuernberg
Grade: 8  Project Type: Individual
Project Title: Tracing Ancestry Through DNA

OAS AWARD  Sponsored Awards -if any
Excellent

Ms. Shannon Nuernburg
Grade: 8  Project Type: Individual
Project Title: Fun With Flying

OAS AWARD  Sponsored Awards -if any
Excellent

Mr Levi Ripato
Grade: 6  Project Type: Individual
Project Title: Bullet Proofing Your Backpack

OAS AWARD  Sponsored Awards -if any
Superior

St Paschal Baylon, Highland Heights

Mr. Ethan Michael Boes
Grade: 8  Project Type: Individual
Project Title: EcSTATIC Electricity

OAS AWARD  Sponsored Awards -if any
No Show

Ms. Sophia Kathryn Boes
Grade: 8  Project Type: Individual
Project Title: Porous Concrete: Creating a Safer Environment

OAS AWARD  Sponsored Awards -if any
No Show
St Paschal Baylon, Highland Heights

Ms Eleanor Patricia Fleming
Grade: 8  Project Type: Individual
Project Title: How does increasing the strength of an electromagnetic field affect the vitality of blue-green algae?

Ms. Macey Lyn Israel
Grade: 8  Project Type: Individual
Project Title: Colorless Chemistry

Ms. Lilly Jarz
Grade: 7  Project Type: Individual
Project Title: Caps Lock - Does it Matter?

Mr. Zoltan Kotrebai
Grade: 7  Project Type: Individual
Project Title: Optimizing Electrolytic Hydrogen Production to Aid the Storage of Renewable Energy

Ms Marie Lynn Musbach
Grade: 8  Project Type: Individual
Project Title: Quick Crystalizing

St Paul, N Canton

Ms Angelina Fierro
Grade: 8  Project Type: Individual
Project Title: Which Liquid Has the Most Electrolytes?

Mr Sam A. Fonner
Grade: 7  Project Type: Individual
Project Title: What Type of Pollutants Affect the Health of the Ocean Environment the Most?

Mr Maxwell Joseph Held
Grade: 7  Project Type: Individual
Project Title: What is the best superhydrophobic coating?
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

St Paul, N Canton

Ms. Julia Marie Leonard

OAS AWARD
Superior

Sponsored Awards -if any
250

Project Title: How Much Salt Does It Take to Sanitize One Liter of Tap Water Using Electrolysis?

Grade: 6
Project Type: Individual

St Paul, Salem

Ms. Morgan Emily Terakedis

OAS AWARD
Superior

Sponsored Awards -if any

Project Title: How do acids affect the rate of corrosion over one week?

Grade: 6
Project Type: Individual

St Paul, Westerville

Ms. Paige Watters

OAS AWARD
Superior

Sponsored Awards -if any

Project Title: Will an Electric or Manual Toothbrush Remove the Most Plaque in Two Minutes?

Grade: 7
Project Type: Individual

St Paul, Westerville

Ms. Laura Grace Hovorka

OAS AWARD
Superior

Sponsored Awards -if any

Project Title: What Makes the Fizziest Bath Bomb?

Grade: 5
Project Type: Individual

St Paul, Westerville

Mr. Andrew Beck

OAS AWARD
Superior

Sponsored Awards -if any

Project Title: Does Surface Matter?

Grade: 6
Project Type: Individual

Mr. Nathan Yakubek

OAS AWARD
Excellent

Sponsored Awards -if any

Project Title: The Science of Tempering Chocolate

Grade: 6
Project Type: Individual

St Paul, Westerville

Ms. Loralei Ann Barker

OAS AWARD
Excellent

Sponsored Awards -if any

Project Title: The Effect of Age on the Completion Time of the Stroop Test

Grade: 7
Project Type: Individual

St Paul, Westerville

Ms. Isabella Grace Brown

OAS AWARD
Superior

Sponsored Awards -if any

Project Title: Do Warmer Seas Make Stronger Hurricanes

Grade: 8
Project Type: Individual
**St Paul, Westerville**

**Ms Norah Lee Gustafson**
Grade: 8  
Project Type: Individual  
Project Title: *Does Sugar Content in Bananas Change as They Ripen?*  

**Mr. Austin Matthew Rush**
Grade: 8  
Project Type: Individual  
Project Title: *The EFFECT of SCREEN COLOR on MEMORY*  

**St Peter, N Ridgeville**

**Mr. James Natale Cristino**
Grade: 7  
Project Type: Individual  
Project Title: *Soil Wars: Battle of the Basil Germination*  

**Mr. Andrew Krupka**
Grade: 7  
Project Type: Individual  
Project Title: *Which Dewormer Works Best In Your Kids*  

**Ms. Alaina J Smyth**
Grade: 7  
Project Type: Individual  
Project Title: *Filterama*  

**Mr. Donald Nolan VanGilder**
Grade: 8  
Project Type: Individual  
Project Title: *Water the Best Pots?*  

**St Raphael, Bay Village**

**Ms. Sophie Marie Georgiadis**
Grade: 7  
Project Type: Individual  
Project Title: *Does This Drag Have Swag?*  

**Ms. Ashleigh Grace Gibbs**
Grade: 8  
Project Type: Individual  
Project Title: *Bye Bye Bioplastics, an Alternate Solution to Pollution Caused by Traditional Plastics*
# State Science Day - May 11, 2019

Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority

Hosted by The Ohio State University

---

### St Raphael, Bay Village

<table>
<thead>
<tr>
<th>School</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Cara Catherine Heisterkamp</td>
<td>Superior</td>
<td>030 HM 250</td>
</tr>
<tr>
<td>Grade: 7</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>The Biggest Catch...Which Line Will Snag It?</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ms. Caitlin Hoban</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 6</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>The Cleanest Sponge</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mr. Cooper Meneghetti</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 7</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Go with the Flow, it's Electric! Generating Electric Power from Water</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mr. Michael Wynne</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 7</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>The Chilling Truth: The Effect of Temperature on Alkaline Battery Performance</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ms. Julia Grace Zagore</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 6</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>&quot;That Takes the Cake!&quot;</td>
<td></td>
</tr>
</tbody>
</table>

---

### St Rita, Solon

<table>
<thead>
<tr>
<th>School</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Charles Kealy</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 7</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Gatorade or Rottenade</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mr. Stanley Musbach</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 7</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Raise The Roof: Which Roofing Material is the Best Heat Absorber?</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mr. Andrew Schnitter</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: 7</td>
<td>Project Type: Individual</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td>Musical Memory</td>
<td></td>
</tr>
</tbody>
</table>

---
# State Science Day - May 11, 2019

Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority

Hosted by The Ohio State University

## St Rita, Solon

**Ms. Gabrielle Shainoff**

Grade: 7

Project Type: Individual

**Project Title:** 9 Ways Immersed: A Paper Towel Absorbency Experiment

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>

## St Rose, New Lexington

**Ms. Clara Ann Baker**

Grade: 6

Project Type: Individual

**Project Title:** Spinach Growing the Scoop on Poop

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td></td>
</tr>
</tbody>
</table>

## Harold C. Shaw Outstanding School Award

**Mr. Robert Reece Hagy**

Grade: 5

Project Type: Individual

**Project Title:** Volcanic Eruptions

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td></td>
</tr>
</tbody>
</table>

## St Rose, New Lexington

**Ms. Elle Mae Mitchell**

Grade: 7

Project Type: Individual

**Project Title:** Which paper towel brand has the better cost effectiveness

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>250</td>
<td></td>
</tr>
</tbody>
</table>

## St Sebastian, Akron

**Ms. Hannah Rose Sheets**

Grade: 5

Project Type: Individual

**Project Title:** Hannah Sheets

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>067 3RD</td>
<td></td>
</tr>
</tbody>
</table>

## St Sebastian, Akron

**Ms. Lucy Lennon Watkins**

Grade: 5

Project Type: Individual

**Project Title:** Stain Out

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>

## St Sebastian, Akron

**Ms. Isabella Rinz**

Grade: 8

Project Type: Individual

**Project Title:** Horse angle research

<table>
<thead>
<tr>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>
St Susanna, Mason

Mr. Todd Snyder  

OAS AWARD  
Superior  
Sponsored Awards -if any  
250  

Grade: 7  
Project Type: Individual  
Project Title: What shapes are least visible on radar?

St Thomas More, Cincinnati

Ms. Emily Anna Burger  

OAS AWARD  
Superior  
Sponsored Awards -if any  

Grade: 7  
Project Type: Individual  
Project Title: How to be germ free Lather, Rinse, Repeat

St Timothy, Columbus

Ms. Betsy Simone Collins  

OAS AWARD  
Superior  
Sponsored Awards -if any  

Grade: 7  
Project Type: Individual  
Project Title: Does Competition Between Students Affect Test Scores?

Mr. Logan Xavier Knapp  

OAS AWARD  
Excellent  
Sponsored Awards -if any  

Grade: 7  
Project Type: Individual  
Project Title: Do different types of music affect plant growth?

Ms. Emily Claire Stickler  

OAS AWARD  
Superior  
Sponsored Awards -if any  

Grade: 7  
Project Type: Individual  
Project Title: Slime Science

St Vincent de Paul, Mt Vernon

Ms. Jillian Grace Beever  

OAS AWARD  
Superior  
Sponsored Awards -if any  

Grade: 6  
Project Type: Individual  
Project Title: Sunscreen

Ms. Ainsley Mia Bonaudi  

OAS AWARD  
Excellent  
Sponsored Awards -if any  

Grade: 6  
Project Type: Individual  
Project Title: Moisturizers
St Vincent de Paul, Mt Vernon

Mr. Alex Evon Buehrer
Grade: 8  Project Type: Individual
Project Title: Electromagnets

Ms. Margaret Rose Richardson
Grade: 6  Project Type: Individual
Project Title: Biomass

St Vincent DePaul, Akron

Ms. Ruth Adams Gemmell
Grade: 7  Project Type: Individual
Project Title: Algae Power! Manipulating growth with light waves

St Vincent St Mary, Akron

Ms Lucy Helen Chmura
Grade: 10  Project Type: Individual
Project Title: Reducing Phosphate Runoff Through a Mixture of Common Ground Covers

Ms Isabelle Davis
Grade: 11  Project Type: Individual
Project Title: The Effect of UV Exposure on 3D Printed Objects

Ms Maeve Gaffney
Grade: 10  Project Type: Individual
Project Title: The Effects of Potassium Nitrate on Microorganisms in Soil

Ms Kaitlin Kemp
Grade: 11  Project Type: Individual
Project Title: The Hydrophobicity and Self-Cleaning Properties of Various Surfaces Using the Layer-By-Layer Method

Mr. Tingzhang Li
Grade: 12  Project Type: Individual
Project Title: The Study of Dynamics of Rigid Nanoparticle Rolling on a Soft Substrate
St Vincent St Mary, Akron

OAS AWARD
Superior

Sponsored Awards -if any
018 2nd 157 1ST

Ms Abigail Irene May
Grade: 10
Project Type: Individual
Project Title: Impact of Different Chemicals on Plant Types

Mr. Brennan Alexander Moll
Grade: 12
Project Type: Individual
Project Title: Heat Transfer of Graphene and H.I.P.S. in a simple frame

Mr. Mason F Stams
Grade: 11
Project Type: Individual
Project Title: Atomic Radical Polymerization of Styrene

Mr. Jimmy P Warholy
Grade: 9
Project Type: Individual
Project Title: Effects of Changes in Direction of Gravity on Plants

Mr. Lukas Paul Kaiser Werckman
Grade: 9
Project Type: Individual
Project Title: Greywater's Effect on Sunflowers

Stanton MS, Kent

OAS AWARD
Excellent

Sponsored Awards -if any

Mr Adam Khan
Grade: 7
Project Type: Individual
Project Title: The Interaction of Temperature and Liquid Crystals

Strongsville HS, Strongsville

OAS AWARD
Superior

Sponsored Awards -if any
217 2ND

Ms. Alison Jie Zhong
Grade: 11
Project Type: Individual
Project Title: Lab Fabrication of Supercapacitors and Performance Comparison with Commercial Supercapacitors
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Sts Joseph & John Interparochial, Strongsville

Ms. Maeve Bridget Galla
OAS AWARD
Superior
Sponsored Awards -if any
Grade: 8  Project Type:  Individual
Project Title:  Does Formaldehyde in Nail Polish Impact Its Durability?

Sts Peter & Paul, Ottawa

Ms. Bekah Joanne Compton
OAS AWARD
Superior 246 1ST  250
Sponsored Awards -if any
Grade: 8  Project Type:  Team
Project Title:  Comprehension of Text Messages

Ms. Alyssa Victoria Young
OAS AWARD
Superior 246 1ST  250
Sponsored Awards -if any
Grade: 8  Project Type:  Team
Project Title:  Comprehension of Text Messages

Summit Country Day, Cincinnati

Mr. Michael Hajjar
OAS AWARD
No Show
Sponsored Awards -if any
Grade: 12  Project Type:  Individual
Project Title:  Early outcomes and tendon integrity following arthroscopic repair of large/massive rotator cuff tears augmented with a collagen patch graft.

Sunrise Academy, Hilliard

Mr Anas Mereb
OAS AWARD
Superior 061 2ND  072 1ST  134 HM  217 1ST  080 2ND  250
Sponsored Awards -if any
Grade: 7  Project Type:  Individual
Project Title:  Removal Efficiency of Lead from Water Using Affordable Natural Materials

Sycamore HS, Cincinnati

Mr Mohit Dighamber
OAS AWARD
No Show
Sponsored Awards -if any
Grade: 12  Project Type:  Individual
Project Title:  Maximizing Bioremediation Potential in Aquatic Ecosystems by Coupling Electrostimulation and Biostimulation

Mr. Drew Michael Ripberger
OAS AWARD
Superior
Sponsored Awards -if any
Grade: 11  Project Type:  Individual
Project Title:  Dinghy: Horizontally Scaling Raft Clusters
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio
Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Sycamore HS, Cincinnati

Ms. Christine Jiaying Zou
Grade: 12  Project Type: Individual
Project Title: Characterizing the Vibrational Response of a Fuel Injector

Mr. Hari Iyer
Grade: 11  Project Type: Team
Project Title: Using Redistricting Algorithms to Analyze Gerrymandering

Mr. Rohan Mathur
Grade: 11  Project Type: Team
Project Title: Using Redistricting Algorithms to Analyze Gerrymandering

Mr. Govind Nadathur
Grade: 10  Project Type: Team
Project Title: Optimizing Hydrogels in Cosmetics: Creating Effective Self-Assembled Nanostructures Coupled with an Antioxidant-Rich and High SPF Pollution-fighting Soybean Oil Cream

Mr. Arvind Prasad
Grade: 10  Project Type: Team
Project Title: Optimizing Hydrogels in Cosmetics: Creating Effective Self-Assembled Nanostructures Coupled with an Antioxidant-Rich and High SPF Pollution-fighting Soybean Oil Cream

Sylvania Northview HS, Sylvania

Mr. Adam John Burnworth
Grade: 11  Project Type: Individual
Project Title: Lavender's Repellent Effects on Varroa Mites

Ms. Hannah Grace Dorris
Grade: 12  Project Type: Individual
Project Title: Optimization of the Synthesis of Starting Materials for Claisen Rearrangement
### Terrace Park ES, Terrace Park

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>Grade</th>
<th>Project Type</th>
<th>Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Seth Thomas Farrell</td>
<td>Crosse Covers</td>
<td>6</td>
<td>Individual</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Mr. Sam Thurner Koehler</td>
<td>The Southpaw Slider</td>
<td>6</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Evelyn Mae Metze</td>
<td>Reimagined wipes dispenser</td>
<td>6</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Mr. William Thomas Stevens</td>
<td>Soccer Ball Science</td>
<td>6</td>
<td>Individual</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Laney Willett</td>
<td>Does the grade you teach affect how much information you retain</td>
<td>6</td>
<td>Individual</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Campbell Carroll Center</td>
<td>Pillow Pal</td>
<td>6</td>
<td>Team</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Julia Suzanne Deters</td>
<td>Pillow Pal</td>
<td>6</td>
<td>Team</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>Ms. Cami Zee Hackney</td>
<td>Which breed of dog will have the highest I.Q score?</td>
<td>6</td>
<td>Team</td>
<td>Superior</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>School</td>
<td>Project Title</td>
<td>Grade</td>
<td>Project Type</td>
<td>Award Level</td>
<td>Sponsored Awards -if any</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-----------------------------------------------------------------</td>
<td>-------</td>
<td>--------------</td>
<td>-------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Terrace Park ES, Terrace Park</td>
<td>Will Acetone Affect Different Examples Of #6 Plastics</td>
<td>6</td>
<td>Team</td>
<td>Superior</td>
<td>Sponsored Awards</td>
</tr>
<tr>
<td>Ms. Abigail Rose Hobek</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terrace Park ES, Terrace Park</td>
<td>Will Acetone Affect Different Examples Of #6 Plastics</td>
<td>6</td>
<td>Team</td>
<td>Superior</td>
<td>Sponsored Awards</td>
</tr>
<tr>
<td>Ms. Reece Beth Murphy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terrace Park ES, Terrace Park</td>
<td>Which breed of dog will have the highest I.Q score?</td>
<td>6</td>
<td>Team</td>
<td>Superior</td>
<td>Sponsored Awards</td>
</tr>
<tr>
<td>Ms. Lauren Whittle Peirol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The University School,</td>
<td>Modeling The Prescription Drug Epidemic With Mathematical</td>
<td>11</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Chagrin Falls</td>
<td>Functions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mr Neel Agarwal</td>
<td></td>
<td>11</td>
<td>Individual</td>
<td>Excellent</td>
<td>023 1ST</td>
</tr>
<tr>
<td>The University School,</td>
<td>A Robotic Platform to Monitor the Indoor Environment</td>
<td>12</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Chagrin Falls</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>221 HM</td>
</tr>
<tr>
<td>Mr. Maheep Brar</td>
<td></td>
<td>9</td>
<td>Individual</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Mr. Alex Devine</td>
<td>Exploring Options for Solar Recycling</td>
<td>11</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Mr. Ryan Devine</td>
<td>Creating a Carbon Fiber Reinforced Polymer Matrix Composite</td>
<td>11</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(PMC) with Improved Elastic Properties</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mr. Ali M. Gardezi</td>
<td>The effects of Tributyrin supplementation on oxidative stress</td>
<td>11</td>
<td>Individual</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td></td>
<td>responses in mice exposed to antibiotics and binge ethanol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The University School, Chagrin Falls

Mr. Jonathan H Jang

OAS AWARD: Excellent
Sponsored Awards -if any: 192 HM 238 1ST
Grade: 10  Project Type: Individual
Project Title: The Feasibility of hiPSC-RPE Cells as a Surrogate for Human RPE

Mr. Sohum Samir Kapadia

OAS AWARD: Superior
Sponsored Awards -if any: 023 1ST 238 3RD 148 2ND
Grade: 10  Project Type: Individual
Project Title: Anatomical Correlation Between Mitral and Tricuspid Valve Dimensions

Mr. Sai Siddhi Karnati

OAS AWARD: Excellent
Grade: 11  Project Type: Individual
Project Title: KLF15’s Role in Regulating Endobiotic and Xenobiotic Metabolism

Mr. Toussaint Joshua Miller

OAS AWARD: Superior
Sponsored Awards -if any: 028 2ND
Grade: 10  Project Type: Individual
Project Title: This Is Your Brain On Music

Mr. John Scott Pape

OAS AWARD: Superior
Sponsored Awards -if any: 080 2ND
Grade: 10  Project Type: Individual
Project Title: Disruption of hearing membrane protein (HMP) 1

Mr. Bryan Rego

OAS AWARD: Superior
Sponsored Awards -if any: 080 2ND
Grade: 12  Project Type: Individual
Project Title: ASSESSING THE OCCURRENCE OF MICROPLASTIC UPTAKE BY UNIONID FRESHWATER MUSSELS

Mr. Graden Snyder

OAS AWARD: Excellent
Sponsored Awards -if any: 072 2ND 080 HM
Grade: 12  Project Type: Individual
Project Title: THE EFFECTS OF ALUMINA FILTERS ON MICROCYSTIS AERUGINOSA GROWTH

Mr. Ian Swain

OAS AWARD: Excellent
Sponsored Awards -if any: 
Grade: 10  Project Type: Individual
Project Title: Pathogenetic Mechanisms Associated with Barrett’s Esophagus
The University School, Shaker Hts

OAS AWARD

Mr. William Lvovich
Excellent
Grade: 11
Project Type: Individual
Project Title: Study of Fuel Cell Efficiency as a Function of Hydrogen Consumption

Mr. Sachin Singh
Excellent
Grade: 8
Project Type: Individual
Project Title: How does the number of grooves influence a golf shot?

Thomas Worthington HS, Worthington

OAS AWARD

Ms. Yashna Kumar Rana
Excellent
Grade: 9
Project Type: Individual
Project Title: Correlation between Vitamin C Levels and Expiration Data

Tinora HS, Defiance

OAS AWARD

Mr Christopher Ferguson
Superior
Grade: 11
Project Type: Individual
Project Title: Designing a C# Class to Perform High Precision Math

Tippecanoe HS, Tipp City

OAS AWARD

Ms. Anagrace Marie Bennett
Excellent
Grade: 9
Project Type: Individual
Project Title: An Alternative Choice: Essential Oils or Antibiotics

Ms Leena D Vyas
Superior
Grade: 12
Project Type: Individual
Project Title: Thermodynamics: Analysis of Wildfire Ash, and the Melting effect on Alaska’s Mount Hunter

Tippecanoe MS, Tipp City

OAS AWARD

Ms. Audrey Kinninger
Excellent
Grade: 6
Project Type: Individual
Project Title: Efficient Eyewear
### Tippecanoe MS, Tipp City

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Mason Kinninger</td>
<td>6</td>
<td>Individual</td>
<td>Seismic Structures</td>
</tr>
<tr>
<td>Mr. Sadhil Mehta</td>
<td>6</td>
<td>Individual</td>
<td>Why water appears like Jello in space?</td>
</tr>
<tr>
<td>Ms. Riya Patel</td>
<td>7</td>
<td>Individual</td>
<td>Germ Wars: Home vs. School</td>
</tr>
<tr>
<td>Ms. Marissa Hollon</td>
<td>6</td>
<td>Team</td>
<td>Ultraviolet Lighting: Effects of Ultraviolet Light on Artificially Colored Liquids</td>
</tr>
<tr>
<td>Mr. Parker James Kaibas</td>
<td>6</td>
<td>Team</td>
<td>No Signal!</td>
</tr>
<tr>
<td>Ms. Brynna Sears</td>
<td>6</td>
<td>Team</td>
<td>Ultraviolet Lighting: Effects of Ultraviolet Light on Artificially Colored Liquids</td>
</tr>
</tbody>
</table>

### Toledo Islamic Academy, Sylvania

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Nora Hasan</td>
<td>8</td>
<td>Individual</td>
<td>Burning Calories</td>
</tr>
</tbody>
</table>
Toledo Islamic Academy, Sylvania

Mr. Mazen Hinch
Grade: 6  Project Type: Team
Project Title: The Homemade Food Battery

OAS AWARD
Excellent
Sponsored Awards -if any

Mr. Muhammad Hussein
Grade: 6  Project Type: Team
Project Title: The Homemade Food Battery

OAS AWARD
Excellent
Sponsored Awards -if any

Tower Heights MS, Centerville

Ms. Anna Petre
Grade: 8  Project Type: Individual
Project Title: Insight on Angles

OAS AWARD
Superior
Sponsored Awards -if any
246 1ST

Ms. Tabitha Erin Skelding
Grade: 8  Project Type: Individual
Project Title: On Drosophila Melanogaster and Mendelian Genetics

OAS AWARD
Superior
Sponsored Awards -if any

Ms. Alice Jane Zdenek
Grade: 8  Project Type: Individual
Project Title: You Can't Judge A Book By Its Cover

OAS AWARD
Superior
Sponsored Awards -if any

Trotwood-Madison Ms, Trotwood

Ms. Brooklynn Kay Messer
Grade: 7  Project Type: Individual
Project Title: Cheap vs expensive batteries

OAS AWARD
Excellent
Sponsored Awards -if any

Troy HS, Troy

Ms. Sarah Renee Kinder
Grade: 10  Project Type: Individual
Project Title: The Emotions of Color

OAS AWARD
Superior
Sponsored Awards -if any
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Troy HS, Troy

Mr. Grant Klopfenstein
Grade: 10  Project Type: Individual
Project Title: Airfoil Design

Trumbull Career & Tech Ctr, Warren

Mr. William Bendan Woods
Grade: 6  Project Type: Individual
Project Title: Effects of Colored Lights on Plant Growth

Turpin HS, Cincinnati

Mr Hirak Basu
Grade: 10  Project Type: Individual
Project Title: The Efficacy of Retaining Water for Citrus Derived SAPs

Ms. Reilly Christine Flora
Grade: 12  Project Type: Individual
Project Title: The Sensitivity of 23andMe as a Direct-to-Consumer Predictive Genomic Test for BRCA Mutations in a Community Genetics Program

Ms. Fausta Meile Fenner
Grade: 9  Project Type: Team
Project Title: The Effects of Light Color on Salvia hispanica Growth

Ms. Caroline Elise Theetge
Grade: 9  Project Type: Team
Project Title: The Effects of Light Color on Salvia hispanica Growth

Tuscarawas Valley MS, Zoarville

Ms. Paige Elizabeth Price
Grade: 7  Project Type: Individual
Project Title: The Saltier the Better?
<table>
<thead>
<tr>
<th>School</th>
<th>Award Level</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>Sponsor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twin Valley South HS, W Alexandria</td>
<td>Excellent</td>
<td>9</td>
<td>Individual</td>
<td>The Blink Reflex; Salvation of the Stooges</td>
<td></td>
</tr>
<tr>
<td>Union ES, Warsaw</td>
<td>Superior</td>
<td>6</td>
<td>Individual</td>
<td>The Buzz About Bees: Scent Vs. Color</td>
<td>246 1ST</td>
</tr>
<tr>
<td>Union ES, Warsaw</td>
<td>Excellent</td>
<td>6</td>
<td>Individual</td>
<td>Ready Set Crow: A Race of the Chicken Breeds</td>
<td></td>
</tr>
<tr>
<td>Unioto ESSCOPES Academy, Chillicothe</td>
<td>Superior</td>
<td>5</td>
<td>Individual</td>
<td>Syrup, Oil, or Fuel: Which is the best tire prep</td>
<td>067 1ST</td>
</tr>
<tr>
<td>Unioto ESSCOPES Academy, Chillicothe</td>
<td>Superior</td>
<td>5</td>
<td>Individual</td>
<td>How does the angle affect the solar panel?</td>
<td></td>
</tr>
<tr>
<td>Unioto ESSCOPES Academy, Chillicothe</td>
<td>Excellent</td>
<td>5</td>
<td>Individual</td>
<td>Does an LED or Incandescent light bulb cost less to operate?</td>
<td></td>
</tr>
<tr>
<td>Unioto ESSCOPES Academy, Chillicothe</td>
<td>Superior</td>
<td>5</td>
<td>Individual</td>
<td>Pick a Number Between 1-20</td>
<td>246 1ST</td>
</tr>
</tbody>
</table>
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

Unioito ESSCOPES Academy, Chillicothe

Mr. Jacob Spect
OAS AWARD: Excellent
Grade: 5  Project Type: Individual
Project Title: Does weight affect how a drones fly?

Upper Arlington HS, Upper Arlington

Ms. Sarah Joan Renner
OAS AWARD: Excellent
Grade: 11  Project Type: Individual
Project Title: Sleep Quality in High School Students

Ms. Thryambika N/A Sankarraman
OAS AWARD: Excellent
Grade: 10  Project Type: Individual
Project Title: Tyrosinase activity from protein source & enzyme kinetics

Ms Karen Elise Snyder
OAS AWARD: Superior
Grade: 11  Project Type: Individual
Project Title: The complete mitochondrial genomes of 21 stink bugs (Pentatomidae) species and phylogenetic relationships

Mr Leon Wu
OAS AWARD: Superior
Grade: 11  Project Type: Individual
Project Title: Retrograde tRNA Import in S. Cervisae

Urbana HS, Urbana

Ms. Paige Deere
OAS AWARD: Excellent
Grade: 10  Project Type: Team
Project Title: The Truth About Fake News

Ms. Raegan Hepp
OAS AWARD: Excellent
Grade: 10  Project Type: Team
Project Title: The Truth About Fake News
### Ursuline Academy HS, Cincinnati

<table>
<thead>
<tr>
<th>Student</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Nicole Lim</td>
<td>Superior</td>
<td>019 SCH 169 1ST</td>
</tr>
</tbody>
</table>

- **Grade:** 10
- **Project Title:** Determining if Chitosan nanoparticles aid in treatments for E. coli

### Valley Christian School, Youngstown

<table>
<thead>
<tr>
<th>Student</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Max Martinucci</td>
<td>No Show</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>

- **Grade:** 6
- **Project Title:** Which Stain Removers Work Best

<table>
<thead>
<tr>
<th>Student</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Alexandru McElhaney</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>

- **Grade:** 6
- **Project Title:** Potato Power!

<table>
<thead>
<tr>
<th>Student</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Owen J Schwendeman</td>
<td>Superior</td>
<td>246 1ST</td>
</tr>
</tbody>
</table>

- **Grade:** 6
- **Project Title:** Does multitasking interfere with performance?

<table>
<thead>
<tr>
<th>Student</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Adan Z Sheik</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>

- **Grade:** 6
- **Project Title:** Does temperature affect elasticity?

<table>
<thead>
<tr>
<th>Student</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Elijah Williams</td>
<td>Excellent</td>
<td>Sponsored Awards -if any</td>
</tr>
</tbody>
</table>

- **Grade:** 7
- **Project Title:** Investigating Finger Patterns

<table>
<thead>
<tr>
<th>Student</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Abigail Peterson</td>
<td>Superior</td>
<td>246 1ST</td>
</tr>
</tbody>
</table>

- **Grade:** 5
- **Project Title:** Green bag VS Mold

<table>
<thead>
<tr>
<th>Student</th>
<th>OAS AWARD</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Aidalise Peterson</td>
<td>Superior</td>
<td>246 1ST</td>
</tr>
</tbody>
</table>

- **Grade:** 6
- **Project Title:** Green bag VS Mold
<table>
<thead>
<tr>
<th>School</th>
<th>OAS Award</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valley Forge ES, Huber Hts</td>
<td>Sponsored Awards</td>
<td>Gummy Bear Osmosis</td>
</tr>
<tr>
<td>Ms. Ziya Mahendra Patel</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 5</td>
<td>Project Type:</td>
<td>Individual</td>
</tr>
<tr>
<td>Project Title:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Versailles HS, Versailles</td>
<td>Sponsored Awards</td>
<td>The Effect of Autonomous Sensory Meridian Response on Arithmetic Thinking</td>
</tr>
<tr>
<td>Mr. Alec Scott Barga</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Grade: 12</td>
<td>Project Type:</td>
<td>Individual</td>
</tr>
<tr>
<td>Project Title:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ms. Kennedy Danielle Hughes</td>
<td>Sponsored Awards</td>
<td>The Effects of Lettuce Processing Techniques on Bacterial Growth</td>
</tr>
<tr>
<td>Grade: 10</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ms. Lauren Elizabeth Menke</td>
<td>Sponsored Awards</td>
<td>Are All Eggs Equivalent?</td>
</tr>
<tr>
<td>Grade: 10</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mr. Ethan Varner</td>
<td>Sponsored Awards</td>
<td>The Effects of Age on the Evolution of Fear Throughout the Lifespan</td>
</tr>
<tr>
<td>Grade: 9</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Village Academy, Powell</td>
<td>Sponsored Awards</td>
<td>Does Slow Cooling from Solution Temperature Affect Fatigue Life in Aluminum?</td>
</tr>
<tr>
<td>Mr Saagar Arya</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Grade: 8</td>
<td>Project Type:</td>
<td>Individual</td>
</tr>
<tr>
<td>Project Title:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ms. Alexa Fischer</td>
<td>Sponsored Awards</td>
<td>Do Veggies Need To Eat Their Veggies?</td>
</tr>
<tr>
<td>Grade: 7</td>
<td>Superior</td>
<td></td>
</tr>
<tr>
<td>Project Title:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Harold C. Shaw Outstanding School Award

Ms. Cait Anne Barilleaux
Grade: 8  Project Type: Individual
Project Title: The Effects of Length and Character Combination of a Password Against a Brute Force Hack

Ms. Caroline Annaliese Burns
Grade: 8  Project Type: Individual
Project Title: Salt Water Farming: Feeding the World

Mr. Sarthak Manish Dighe
Grade: 8  Project Type: Individual
Project Title: The Effect of Spices on E. coli

Mr. Luke Henry Early
Grade: 8  Project Type: Individual
Project Title: Loudness Warning Meter

Ms Mia Elizabeth Gorman
Grade: 9  Project Type: Individual
Project Title: Do I Look Like a Scientist?

Mr Saptarshi Mallick
Grade: 9  Project Type: Individual
Project Title: Effect of Hydrogen Peroxide on Plant Growth and Enzymatic Activity

Ms. Julia Marie Moser
Grade: 8  Project Type: Individual
Project Title: How Temperature Affects Batteries

Ms. Hajra Munir
Grade: 8  Project Type: Individual
Project Title: Does Music Affect Your Pain Tolerance?
Ms. Cara Marin Noel
Grade: 12
Project Type: Individual
Project Title: Using modified T4 bacteriophage to degrade O-antigen of E. coli B, thus increasing overall antibiotic susceptibility in gram negative bacteria

OAS AWARD
Superior

Ms. Abigail Soares
Grade: 8
Project Type: Individual
Project Title: The Reliability of the MBTI

OAS AWARD
Superior

Ms. Kate Stiens
Grade: 8
Project Type: Individual
Project Title: All Natural Hand Sanitizer

OAS AWARD
Superior

Ms. Katrin Helena Vilinsky
Grade: 8
Project Type: Individual
Project Title: The color preference in sub adult jumping spiders

OAS AWARD
Superior

Mr. Aaron Gibson
Grade: 8
Project Type: Team
Project Title: How Does Virtual Reality Affect Us?

OAS AWARD
Excellent

Mr. Louis Ke
Grade: 8
Project Type: Team
Project Title: How Does Virtual Reality Affect Us?

OAS AWARD
Excellent

Ms. Natalie Diane Roell
Grade: 8
Project Type: Team
Project Title: The Effect of Biochar on the Growth of Peppers and their Capsaicin

OAS AWARD
Superior

Ms. Elizabeth Ellen Wahl
Grade: 8
Project Type: Team
Project Title: The Effect of Biochar on the Growth of Peppers and their Capsaicin

OAS AWARD
Superior
Walnut Springs MS, Westerville

Ms. Mabel Rose Cumming-Vukovic
Grade: 7  Project Type: Individual
Project Title: How does the Ages of Girls Affect How They View Gender Roles

OAS AWARD  Sponsored Awards -if any
Excellent

Mr. Adam Kauh
Grade: 6  Project Type: Individual
Project Title: Race to the Top

OAS AWARD  Sponsored Awards -if any
Superior 239 SCH  250

Mr. Mason Morrow
Grade: 7  Project Type: Team
Project Title: Do Plants Like It a Latte?

OAS AWARD  Sponsored Awards -if any
Superior

Mr. Gabe Ryjewski
Grade: 7  Project Type: Team
Project Title: Do Plants Like It a Latte?

OAS AWARD  Sponsored Awards -if any
Superior

Warsaw ES, Warsaw

Ms. Mackynsi Balsley
Grade: 6  Project Type: Individual
Project Title: Gel Electrophoresis

OAS AWARD  Sponsored Awards -if any
Superior

Mr. Logan Fischer
Grade: 6  Project Type: Individual
Project Title: What A Charge!

OAS AWARD  Sponsored Awards -if any
Excellent

Ms. Lexa Guilliams
Grade: 6  Project Type: Individual
Project Title: Waste Not Want Not: Using Waste to Create Electricity

OAS AWARD  Sponsored Awards -if any
Excellent

Mr. Aidan Stevens-Woolery
Grade: 6  Project Type: Individual
Project Title: Charging Up with Microbial Fuel Cells!

OAS AWARD  Sponsored Awards -if any
Excellent
<table>
<thead>
<tr>
<th>School</th>
<th>Award</th>
<th>Sponsorship</th>
<th>Student Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warsaw ES, Warsaw</td>
<td>OAS AWARD</td>
<td>Sponsored Awards -if any</td>
<td>Mr. Cael Summers</td>
<td>6</td>
<td>Individual</td>
<td>Lather Up! The Battle of the Shampoos</td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td>070 HM</td>
<td>Ms. Ariana Wolfle</td>
<td>6</td>
<td>Individual</td>
<td>Oh Buoy!: Building a Raft Powered by Surface Tension</td>
</tr>
<tr>
<td>Weisenborn MS, Huber Hts</td>
<td>OAS AWARD</td>
<td>Sponsored Awards -if any</td>
<td>Mr James Zbinden</td>
<td>8</td>
<td>Individual</td>
<td>Fabric Softener Reduces the Effectiveness of Flame Retardant Fabric</td>
</tr>
<tr>
<td>West ES, Athens</td>
<td>OAS AWARD</td>
<td>Sponsored Awards -if any</td>
<td>Mr. Ethan Bowman</td>
<td>6</td>
<td>Individual</td>
<td>How different papers affect the length of flight in paper airplanes</td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td>067 2ND</td>
<td>Ms. Lizzie Castelino</td>
<td>6</td>
<td>Individual</td>
<td>Hang Up on Radiation - cell phone radiation emission</td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td></td>
<td>Ms. Liza Hartman</td>
<td>5</td>
<td>Individual</td>
<td>Follow The Light - Phototropism Boxes</td>
</tr>
<tr>
<td></td>
<td>Superior</td>
<td></td>
<td>Mr. David Johnson</td>
<td>6</td>
<td>Individual</td>
<td>Algae Eats Food Waste</td>
</tr>
<tr>
<td></td>
<td>Good</td>
<td></td>
<td>Ms. Kayli Kuhlman</td>
<td>6</td>
<td>Individual</td>
<td>DNA Fingerprint</td>
</tr>
</tbody>
</table>
### West ES, Athens

**Mr. Cael McCarthy**
- Grade: 6
- Project Type: Individual
- Project Title: The Effect of Temperature on a Magnet's Strength

**OAS AWARD**
- Excellent

**Sponsored Awards -if any**

### West Geauga HS, Chesterland

**Mr. Sammy Aidja**
- Grade: 10
- Project Type: Individual
- Project Title: Solar Energy???

**OAS AWARD**
- Excellent

**Sponsored Awards -if any**

**Mr. Keegan Barnhart**
- Grade: 10
- Project Type: Individual
- Project Title: Save the Planet: The Need for Bioplastics

**OAS AWARD**
- Good

**Sponsored Awards -if any**

**Mr. Ryan McGinnis**
- Grade: 9
- Project Type: Individual
- Project Title: Chatting or Chatting - How Do Phones Affect Verbal Conversation

**OAS AWARD**
- Excellent

**Sponsored Awards -if any**

### West Geauga MS, Chesterland

**Ms. Isabella Maria Zaffiro**
- Grade: 6
- Project Type: Individual
- Project Title: Farm Fresh Fertilizer

**OAS AWARD**
- Superior

**Sponsored Awards -if any**

**Mr. Grant Dlugos Congdon**
- Grade: 8
- Project Type: Team
- Project Title: Improved Spatial Positioning System

**OAS AWARD**
- Superior

**Sponsored Awards -if any**

**Mr. Bryn P Morgan**
- Grade: 8
- Project Type: Team
- Project Title: Improved Spatial Positioning System

**OAS AWARD**
- Superior

**Sponsored Awards -if any**
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

West Union ES, W Union

Mr Ryken Adair Copas
Project Title: How Does Hearingloss Affect Spectral Hearing?
Grade: 6  Project Type: Individual

OAS AWARD
Sponsored Awards -if any
Superior

Ms. Nina McCann
Project Title: She Looks Just Like Me, Fact or Foe?
Grade: 5  Project Type: Individual

OAS AWARD
Sponsored Awards -if any
Excellent

Westgate ES, E Liverpool

Ms. Sydney Westerman
Project Title: How Music Effects Your Heart Rate
Grade: 6  Project Type: Individual

OAS AWARD
Sponsored Awards -if any
Excellent

Wheelersburg HS, Wheelersburg

Mr Rohit K Kataria
Project Title: Correlation Between Extroversion and Short-Term Memory Among High School Students
Grade: 11  Project Type: Individual

OAS AWARD
Sponsored Awards -if any
Superior 028 1ST

Ms Serena Kataria
Project Title: Osteoporosis Screening: A National Survey
Grade: 9  Project Type: Individual

OAS AWARD
Sponsored Awards -if any
Excellent

Mr. Dev Patel
Project Title: What are the Effects of Smoking?
Grade: 9  Project Type: Individual

Wheelersburg MS, Wheelersburg

Mr. Landon Evans
Project Title: An Examination of Dynamic and Static Stretching on Hamstring Length
Grade: 6  Project Type: Individual

OAS AWARD
Sponsored Awards -if any
Superior
Wheelersburg MS, Wheelersburg

Ms. Lauren Elizabeth Kaltenbach
Grade: 6  Project Type: Individual
Project Title: Comparing the Amount of Sugar in 100% Fruit Juices and Sodas

Ms. Addison Claire Mullins
Grade: 6  Project Type: Individual
Project Title: Straw Wars

Willard Grizzell MS, Dublin

Ms. Audrey Lu
Grade: 6  Project Type: Individual
Project Title: Banana peels: aPEELing for water purification

Mr. Rohan Athavale
Grade: 8  Project Type: Team
Project Title: Affordable Flocculation

Mr. Aayush Vishwanath
Grade: 8  Project Type: Team
Project Title: Affordable Flocculation

William Mason HS, Mason

Ms Laalitya Acharya
Grade: 10  Project Type: Individual
Project Title: Ocula: A Neural Network to Detect the Severity of Diabetic Retinopathy for Early Prognosis of Diabetes

Ms Bela Karajagi
Grade: 9  Project Type: Individual
Project Title: A Novel Way of Altering the Electrolyte to Create a Faster Charging Battery

Ms Maanasa Mendu
Grade: 11  Project Type: Individual
Project Title: DeepScin: A multimodal learning based approach to skin disease detection
State Science Day - May 11, 2019
Sponsored by The Ohio Academy of Science, AEP, Battelle, CAS, Charles River, Ethicon, The Ohio Environmental Education Fund, and the Ohio Tuition Trust Authority
Hosted by The Ohio State University

William Mason HS, Mason

Ms Sanchita Paranthaman
Grade: 10  Project Type: Individual
Project Title: The impact of a choline-rich diet on the gut microbiome

Mr Kunal Ponkshe
Grade: 9  Project Type: Individual
Project Title: Using Magnetocardiography To Characterize Abnormal Magnetic Field Maps in Chest Pain Patients

Ms. Veena Ganti
Grade: 9  Project Type: Team
Project Title: How do plants effect energy consumption?

Ms. Shruti Garg
Grade: 9  Project Type: Team
Project Title: How do plants effect energy consumption?

William S Guy MS, Youngstown

Mr Joseph Loewyn Lowe
Grade: 6  Project Type: Individual
Project Title: How does the amount of vinegar affect the yield of casein plastic?

Ms Kara Andre
Grade: 6  Project Type: Team
Project Title: The Cleaner Side of Things

Ms Hannah G. Zagotti
Grade: 6  Project Type: Team
Project Title: The Cleaner Side of Things

Williamsburg HS, Williamsburg

Ms Willow Kenneda
Grade: 11  Project Type: Individual
Project Title: Environmental Impact of Carbon Nanotubes
## Wilson Hill ES, Worthington

**Mr. Charles McAlister**  
Grade: 5  
Project Type: Individual  
Project Title: *How Height Affects Hydro Lift*  

**OAS AWARD**  
Superior  
Sponsored Awards -if any

**Ms. Olivia Grace Hollis**  
Grade: 6  
Project Type: Team  
Project Title: *Geode Base-ics*  

**OAS AWARD**  
Excellent  
Sponsored Awards -if any  
079 HM

**Ms. Lennon Olivia Kloss**  
Grade: 6  
Project Type: Team  
Project Title: *Geode Base-ics*  

**OAS AWARD**  
Excellent  
Sponsored Awards -if any  
079 HM

## Wynford HS, Bucyrus

**Mr. Daniel T. Kurek**  
Grade: 9  
Project Type: Individual  
Project Title: *Ready for Takeoff*  

**OAS AWARD**  
Superior  
Sponsored Awards -if any

**Ms. Natalie Dominiqka Stover**  
Grade: 9  
Project Type: Individual  
Project Title: *Facial Recognition and Memory*  

**OAS AWARD**  
Excellent  
Sponsored Awards -if any  
028 1ST

## Xenia HS, Xenia

**Ms. Jessica Emily Holland**  
Grade: 9  
Project Type: Individual  
Project Title: *Antiseptics and the Amount of Bacteria Killed*  

**OAS AWARD**  
Superior  
Sponsored Awards -if any

## Zahns MS, Piketon

**Ms. Alexandria Nakole Spradlin**  
Grade: 5  
Project Type: Individual  
Project Title: *"Water", You Drinking?*  

**OAS AWARD**  
Excellent  
Sponsored Awards -if any
Zane Trace MS, Chillicothe

**Mr. Daniel Barnhart**
- Grade: 8
- Project Type: Individual
- Project Title: Energy Bike

**Ms Macy Long**
- Grade: 8
- Project Type: Individual
- Project Title: Phone Addiction

**Mr. Evan Minor**
- Grade: 5
- Project Type: Individual
- Project Title: Electromagnets

**Ms Allison Payton**
- Grade: 5
- Project Type: Individual
- Project Title: Lip Balm

**Ms Lillyan Stewart**
- Grade: 8
- Project Type: Individual
- Project Title: Plants and Colors

**Ms Leyliana Thompson**
- Grade: 6
- Project Type: Individual
- Project Title: Best Detergent

**Ms Reiley Whittington**
- Grade: 7
- Project Type: Individual
- Project Title: Safe Water

**Mr. Robert Whittington**
- Grade: 5
- Project Type: Individual
- Project Title: Tree Power
<table>
<thead>
<tr>
<th>School</th>
<th>Student Name</th>
<th>Grade</th>
<th>Project Type</th>
<th>Project Title</th>
<th>OAS Award</th>
<th>Sponsored Awards -if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zane Trace MS, Chillicothe</td>
<td>Mr Henry Zitzelberger</td>
<td>8</td>
<td>Individual</td>
<td>Plants Versus Decibels</td>
<td>Superior</td>
<td>079 HM 250</td>
</tr>
<tr>
<td></td>
<td>Mr Charley Clyne</td>
<td>7</td>
<td>Team</td>
<td>Algae Paper</td>
<td>Superior</td>
<td>080 HM 178 1ST</td>
</tr>
<tr>
<td></td>
<td>Mr Wyatt Vick</td>
<td>7</td>
<td>Team</td>
<td>Algae Paper</td>
<td>Superior</td>
<td>080 HM 178 1ST</td>
</tr>
</tbody>
</table>