



CREATIVE DIGITAL PROJECTS ACROSS THE CURRICULUM

And The Competition

Your Students Can Enter Them In

Thursday, November 3

Salon 3, GICC

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4th and 5th Grade
Science Instructor
Marietta Center for
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Director,
North Central Technology
Competition (Cobb County,
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County)

Steering Committee
Member, Georgia Student
Technology Competition



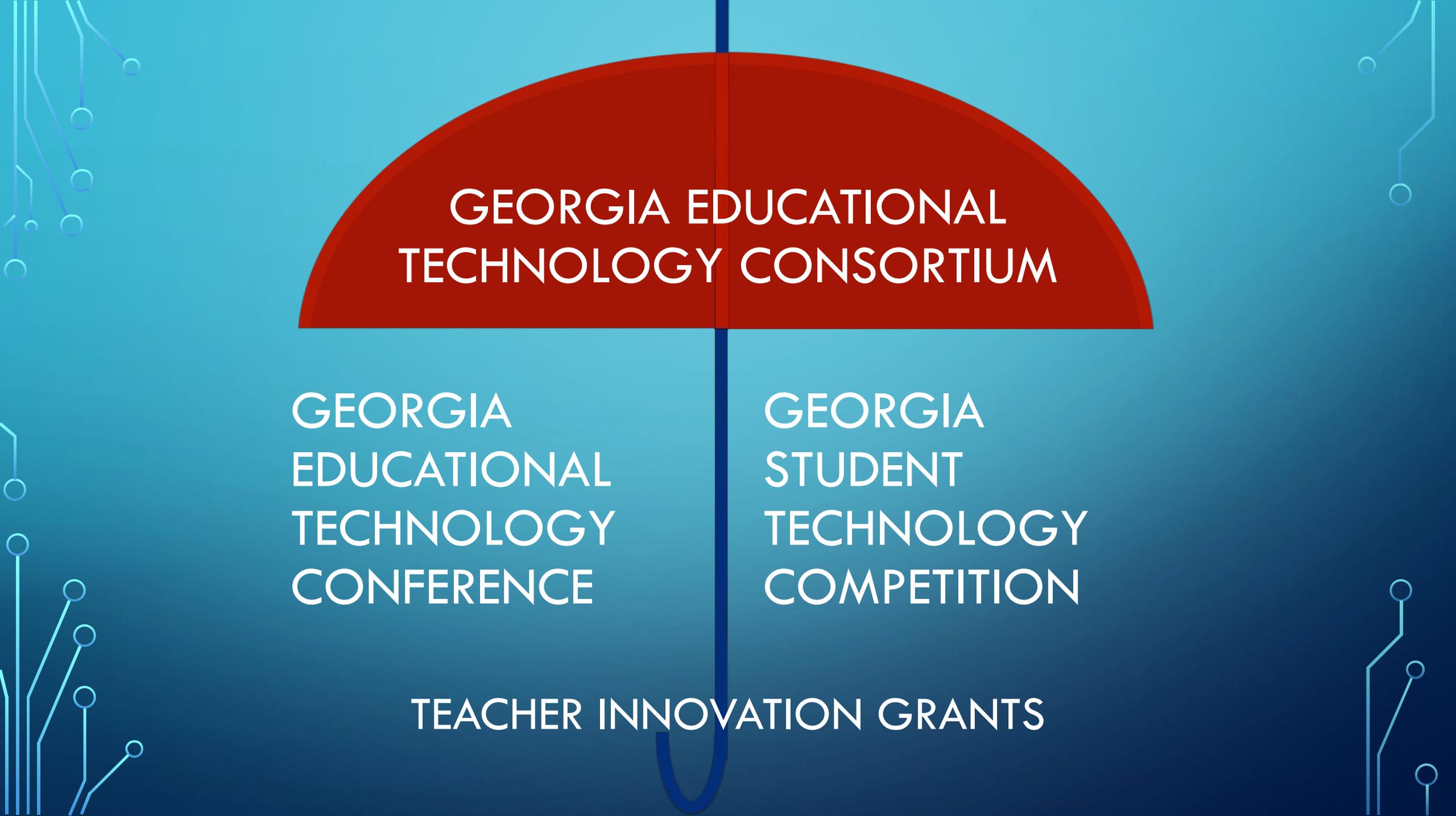
KIM SPIVEY

Media Specialist
Midway Elementary School
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Director, Okefenokee
Student Technology
Competition

Steering Committee
Member, Georgia Student
Technology Competition





GEORGIA EDUCATIONAL
TECHNOLOGY CONSORTIUM

GEORGIA
EDUCATIONAL
TECHNOLOGY
CONFERENCE

GEORGIA
STUDENT
TECHNOLOGY
COMPETITION

TEACHER INNOVATION GRANTS



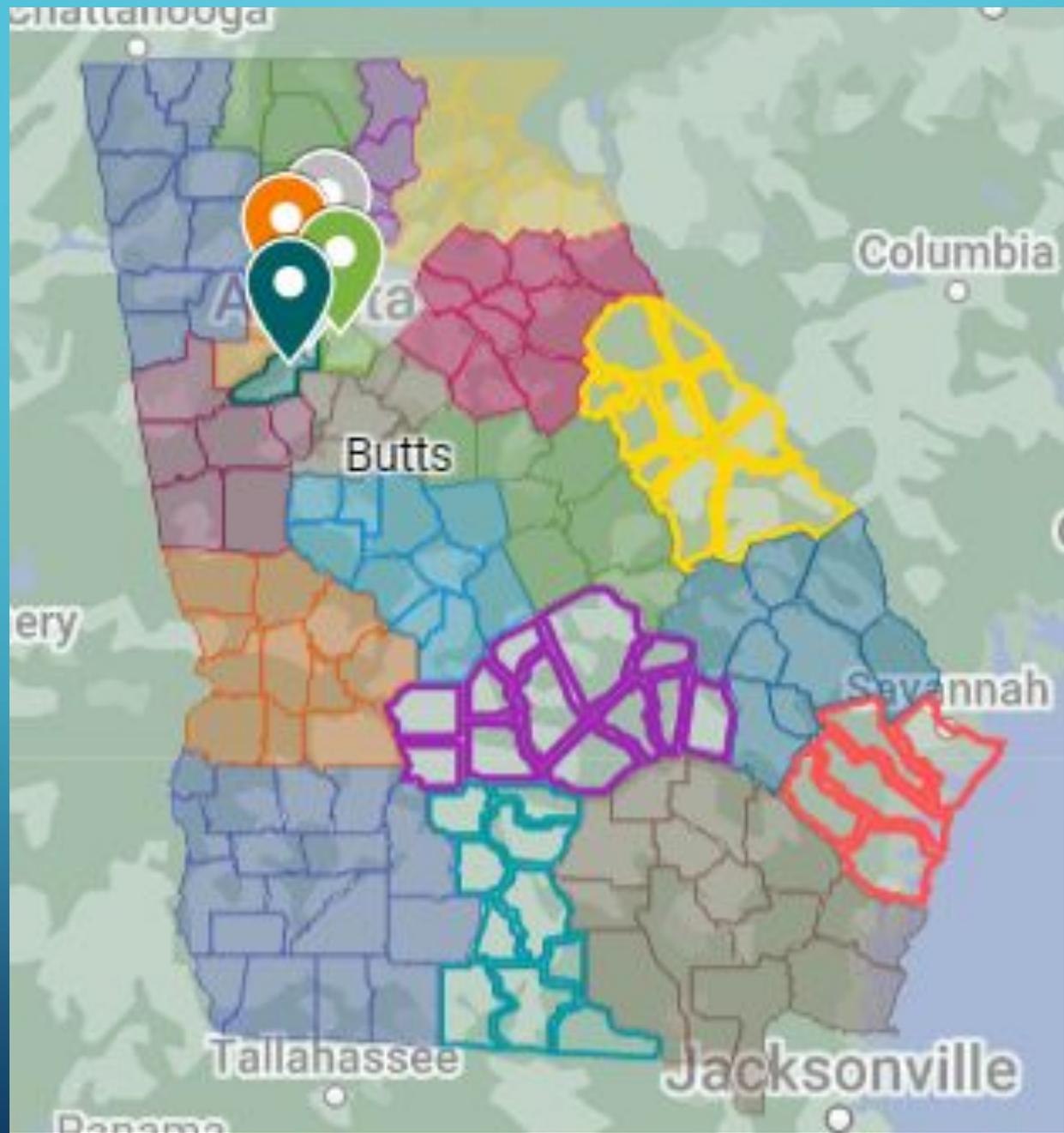
FLIP

FIRST, LET'S TALK A LITTLE ABOUT
THE REGIONAL COMPETITIONS

GEORGIA STUDENT TECHNOLOGY COMPETITION

REGIONS

- Atlanta Public Schools
- Bulloch County
- Chattahoochee Valley
- DeKalb County
- East Atlanta
- Forsyth County
- Fulton County
- Independent and Homeschools
- Hall County
- Middle Georgia (Bibb)
 - North Central (formerly Cobb Regional)
- Northeast Georgia
- Northwest Georgia
- Oconee RESA
- Okefenokee
- Piedmont
- Southwest Georgia
- West Georgia
- Don't see a region for your students? Participate in the one nearest you. Or, ask about starting one in your area.



Check the region closest to you for information by
visiting GaSTC.org

Didn't see your region? Talk to us!

All regions will be in person this year. Check your
region for registration and date of event information.

WHY SHOULD YOUR STUDENTS ENTER A REGIONAL COMPETITION?

- **Computer science drives innovation throughout the US economy, but remains marginalized in K-12 education.**
- **Technology affects every field of commerce: healthcare, in space, in our homes, on our roads, in entertainment and the trend grows every day.**

Source: Code.org

OUR COUNTRY THRIVES ON INNOVATION

Computing jobs are the #1 source of new wages in the US

400,000

current openings

These jobs are in every industry and every state, and they're projected to grow at twice the rate of all other jobs.



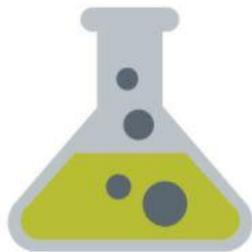
Source: Code.org

The competition encourages student interest and engagement in activities they may not have the opportunity to participate in school.

Computer science is fundamental for every student's success

Six different studies show: children who study computer science...

perform better in
other subjects



excel at
problem-solving



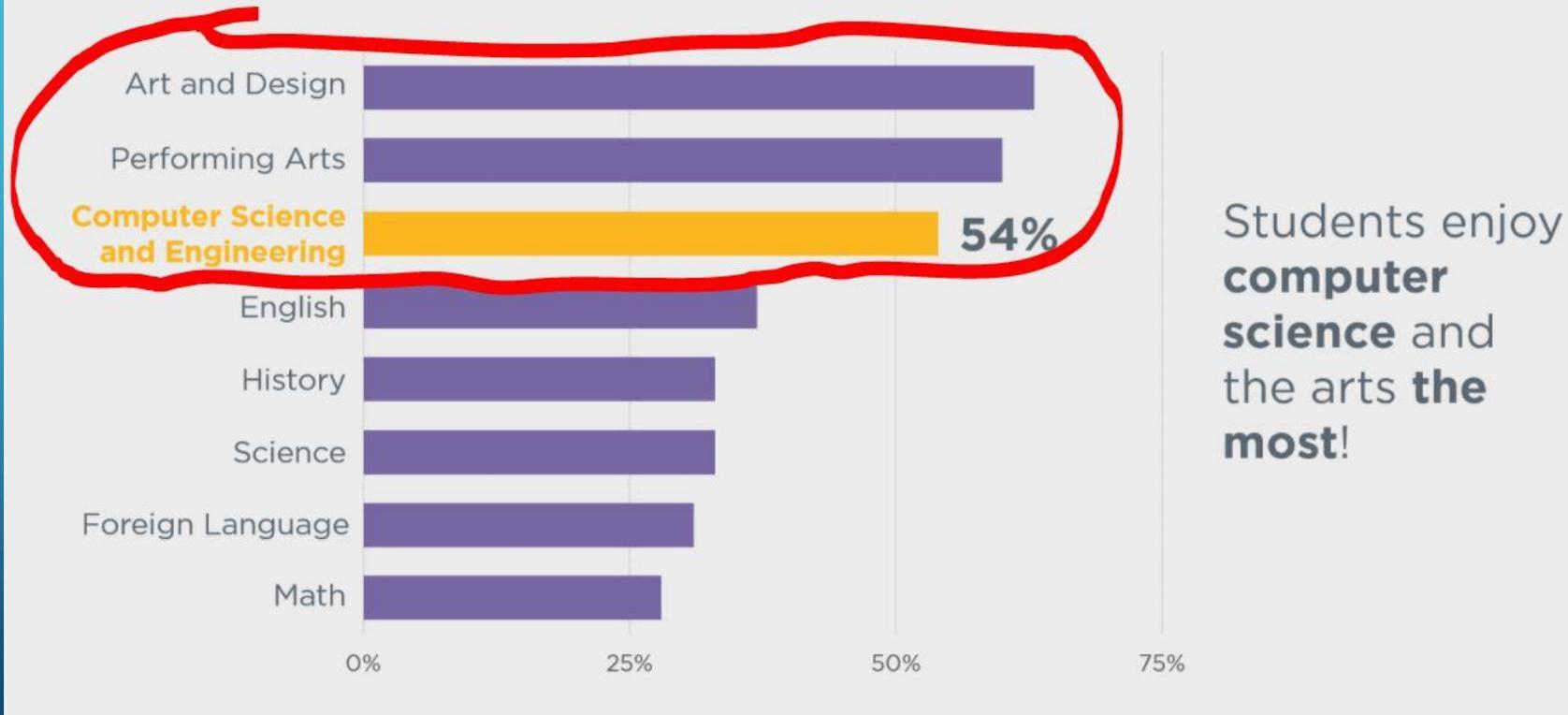
are 17% more likely
to **attend college**



Source: Code.org

The most enjoyed subjects are core to creation of digital products, which are highlighted at the competitions.

What subjects do students like “a lot”?



Students enjoy **computer science** and the arts **the most!**

Source: Code.org

Arts Integration

Visual (Art)

Movement (Dance)

Drama (Skit)

Music (Song)

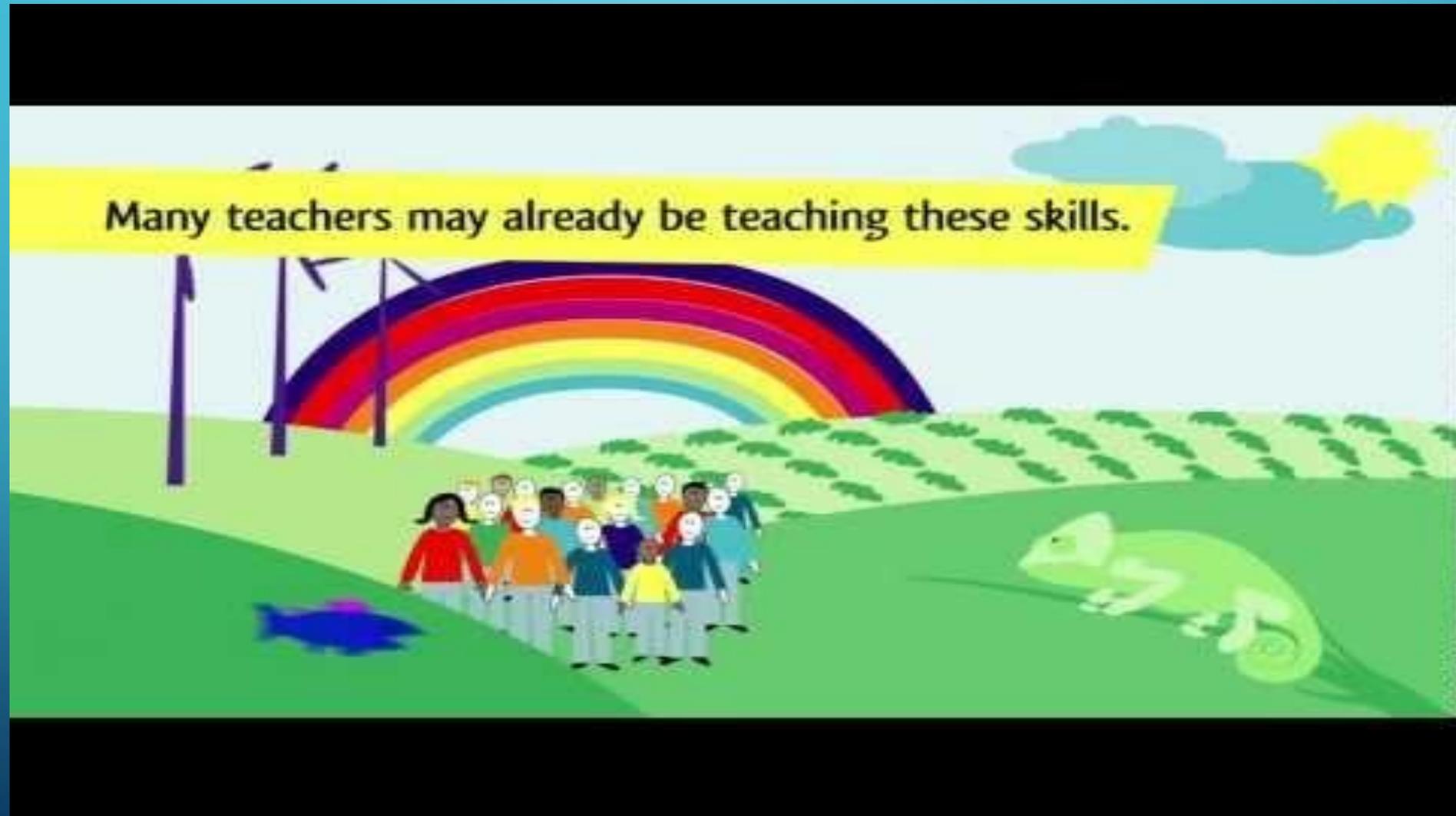




Computational thinking means **thinking** or solving problems like computer scientists. CT refers to thought processes required in understanding problems and formulating solutions. CT involves logic, assessment, patterns, automation, and generalization

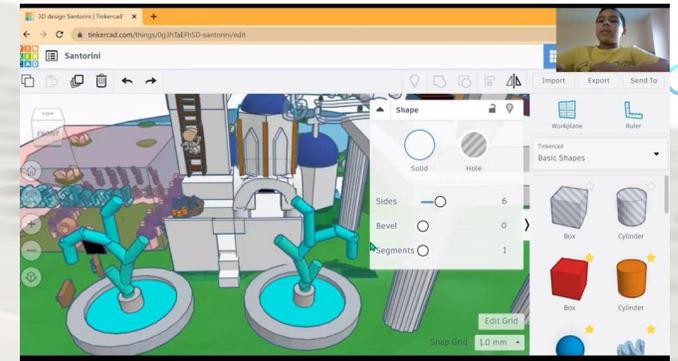
COMPUTATIONAL THINKING

Source: ISTE



[Computational Thinking YouTube Video](#)

3D MODELING

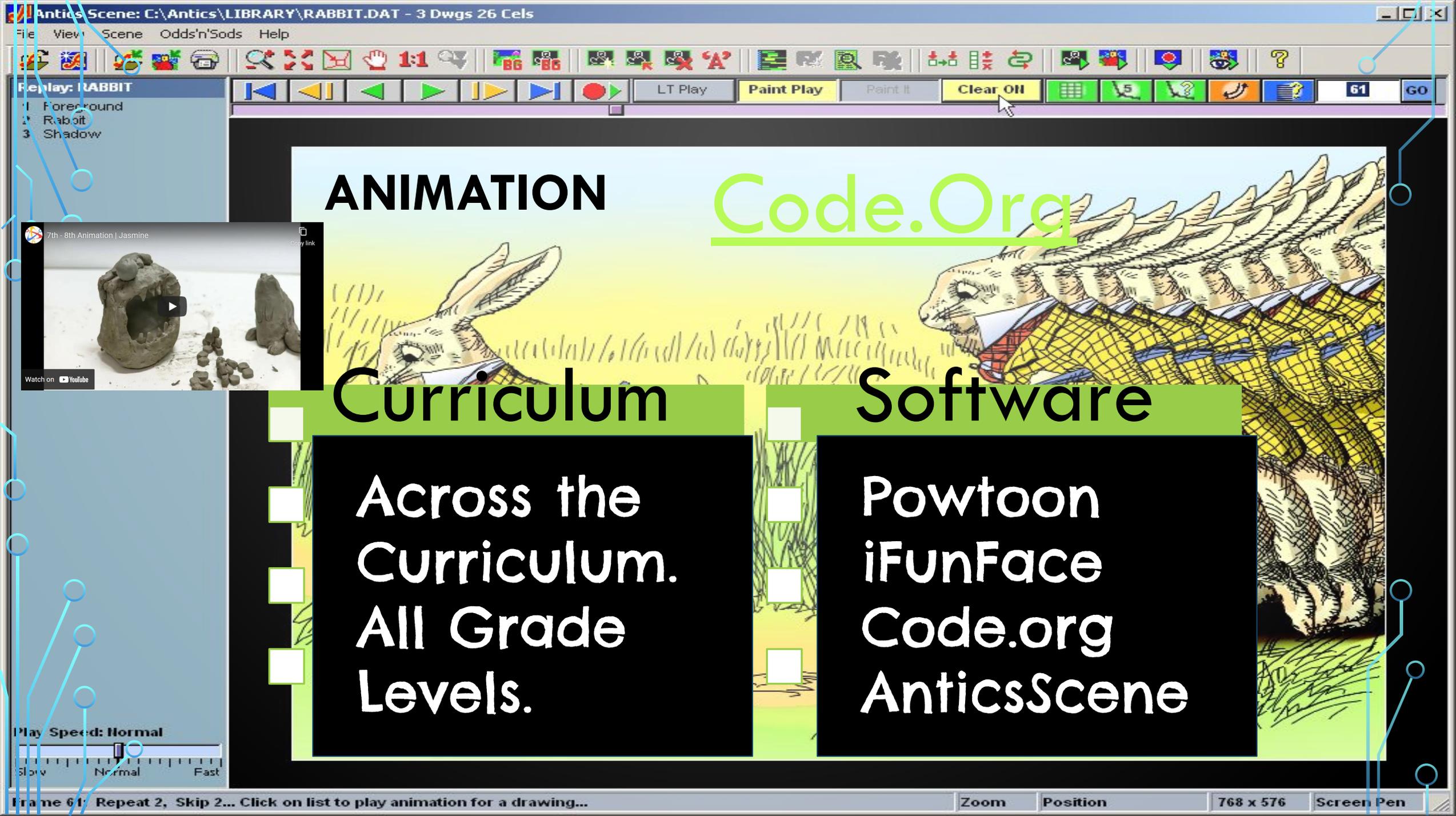


Curriculum

- Across the Curriculum.
- All Grade Levels 3+

Software

- SketchUp
- AutoCAD
- Windows 3D Builder
- Tinkercad
- Blender



ANIMATION

[Code.Org](https://code.org)



Curriculum

- Across the Curriculum.
- All Grade Levels.

Software

- Powtoon
- iFunFace
- Code.org
- AnticsScene

AUDIO PRODUCTION



Curriculum

- Create and Perform a song or music for any standard
-
-
-

Software

- MuseScore
- Bandicam
- FL Studio
-

Device Modification

Curriculum

- Music
- Programming
- Math

Software

-
- Gimp
- Adobe Photoshop
- Picmonkey

MOBY

DIGITAL GAME DESIGN

BrainPop

Gamestar

Mechanic

x 02

Curriculum

Software



All Content

Scratch

Areas

Minecraft

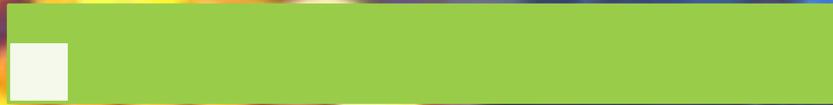
Gamemaker

Code.org



DIGITAL PHOTO PRODUCTION

Curriculum



- All
- Content
- Areas

Software



- Gimp
- Adobe Photoshop
- Picmonkey



GRAPHIC DESIGN

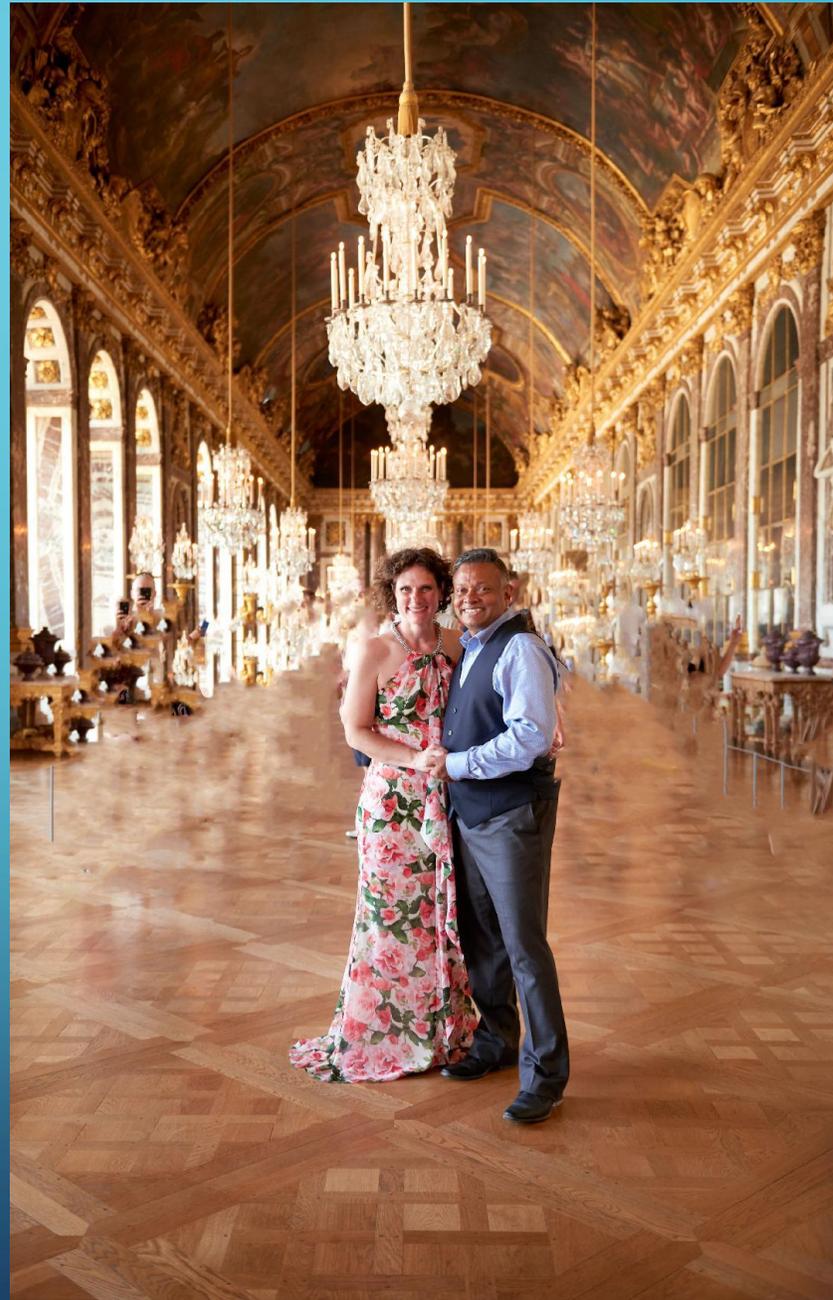
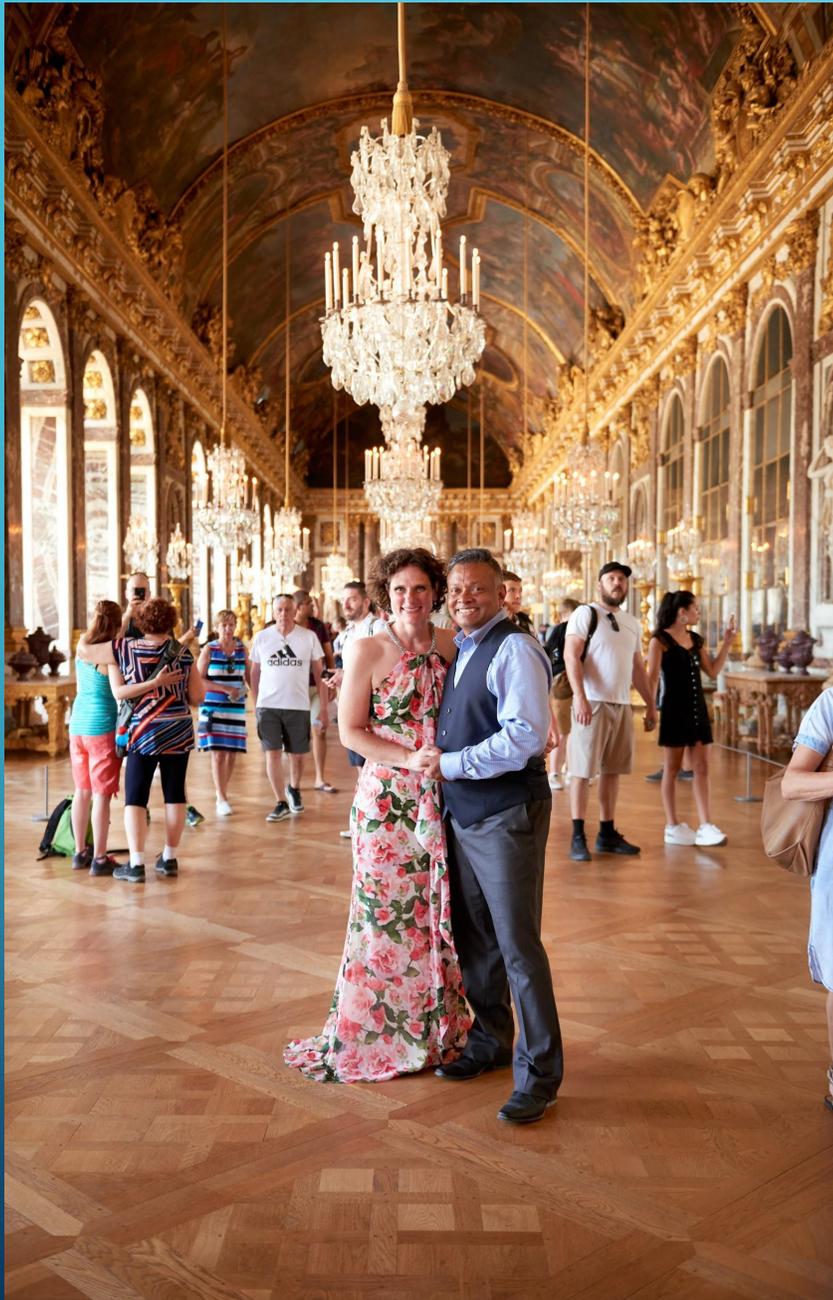
Curriculum

- Posters/Ads
- Show What You Know
-
-

Software

- Adobe Illustrator
- Canva
- Google Draw

Adobe



INTERNET APPLICATIONS

Tucker's Tug Toys

Curriculum

- Across the Curriculum.
- All Grade Levels 3+

Weebly.com

Software

- Websites
- Blogs (Weebly, Wix)
- Multi-Player Server (Minecraft)

Mobile Apps Software

- Appy Pie

- GameSalad

- TheAppBuidler

- Madlearn

Samarth M., 7th Grade
1st Place Regional
2nd Place State

Multimedia Application- More than one tool

Curriculum

- Across the Curriculum
- All Grades

Software

- Google Slides
- PowerPoint
- PowToon

Google Slides

PRODUCTIVITY DESIGN

Curriculum

- Math
- Science
- Data
- Driven Lessons

Software

- Microsoft/Google
- Word/Excel/
- Docs/Sheets/Canva
- Infographics



Comments within computer programs are very important. For this Programming Challenge, you should include the following comments at the top of each of your coding solutions.

Programming Challenge 7th-12th

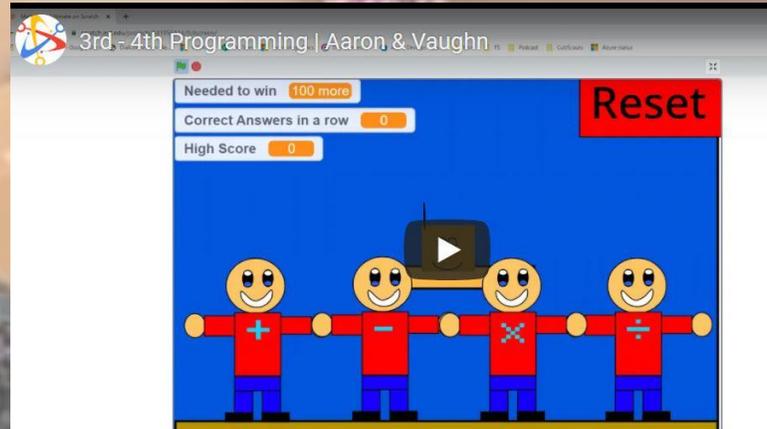
Students may participate individually, with a partner or as a group of 3

How

Students may participate in the Programming Challenge and with a project from a different category

1. Everyone Counts
2. Fibonacci Search

PROJECT PROGRAMMING



Software

Java
Python
Code.org

Assesses Stroke Victim
Brain Activity

ROBOTICS- No Remote Controls Curriculum Software

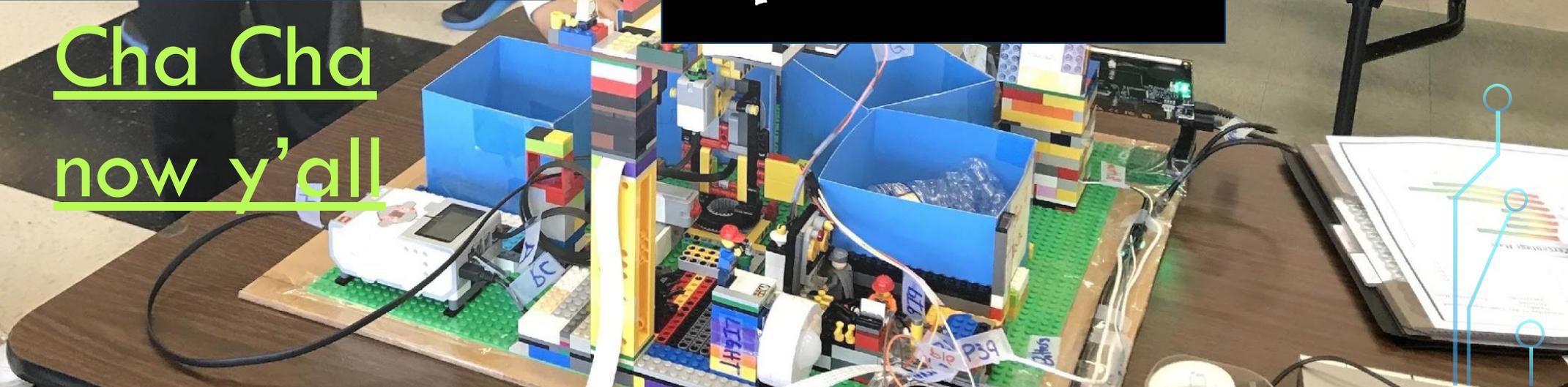
-
-
-
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Math
Computer
Science

-
-
-
-

From a kit
Own Design
Lego
Sphero

Cha Cha
now y'all



VIDEO PRODUCTION

Curriculum

-
- All Content Areas
-

Software

-
- iMovie
- PowToon
- Bandicam

Ninjago

Dawson M., 4th Grade
1st Place Regional
2nd Place State

Projects for the Competitions Do Not Need to Be School Assignments

They're creating at school with PBL
and at home for fun.

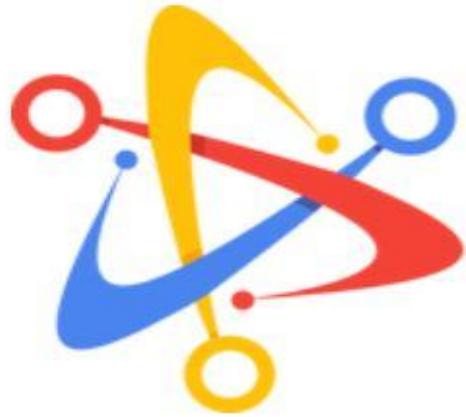
Now they have a chance to show it off in an
exciting, encouraging and safe environment.

Additional GaSTC Awards

\$500 Lou Dewberry Scholarship
to randomly selected Senior

\$250 Scholarship for Seniors
who place highest in their category

\$100 Teach-Technology Award
Best Overall Programming Challenge



GASTC

GaSTC.org

@GASTC

The image features a white background with decorative blue circuit-like lines in the corners. These lines consist of thin blue lines that branch out and terminate in small blue circles, resembling a stylized circuit board or network diagram. The lines are positioned in the top-left, top-right, bottom-left, and bottom-right corners, framing the central text.

The State Competition
will be held March 11, 2023 at
Kennesaw State University,
Marietta Campus

Questions?

Thank you for attending our presentation!

Now, time to share with your students.

