

# D39 Science Field Day

## Information Night

By

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# What is Science Field Day?

- Opportunity for kids to explore, build and have fun with foundational science concepts- hands on experience
- Program, designed, organized and administrated by elementary teachers from throughout San Diego County.
- Held in the spring, brings students together in one location to compete in various events.
- **Competition Date:** Saturday, May 13, 2017
- The primary goal is to develop a positive attitude towards science, technology, engineering and math (STEM).

## Example

[https://www.youtube.com/watch?v=8W\\_OKK9iv3E](https://www.youtube.com/watch?v=8W_OKK9iv3E)

# Events

## Engineering Events

- [Barge Building \(PDF\)](#): Students will construct a barge using heavy-duty aluminum foil. Build a foil barge that holds the most weight in pebbles. Estimate the weight of the pebbles. Supplies provided.
- [Make It, Take It Paddle Boats \(PDF\)](#): Build a paddle boat from a Styrofoam burger box, rubber bands, chop sticks, and masking tape. Supplies provided.
- [Catapult Competition \(PDF\)](#): The students build catapults using the given parameters. Build a throwing/launching device to hit a target. Read the guidelines carefully so your catapult is not disqualified.
- [Structures \(PDF\)](#) : This event is to test students' ability to build strong, stable, reproducible structures from common materials. No spectators will be allowed for this event. Build a sturdy structure out of straws and t-pins to hold the most weight. Materials provided.

# Events

## Engineering Events

- [Tin Can Racers \(PDF\)](#): A team consisting of two team members will compete against other teams in a distance race with tin can racers. Make a tin can racer and bring it to race against the clock. Each racer will have 2 runs.
- [Mirror Magic \(PDF\)](#) : Using mirrors, students bounce light beams onto predetermined targets. Bounce light off of 3 mirrors to hit a target. One time with the light already on, one time with placing mirrors before turning the light on. Supplies provided, but students may bring their own mirrors and hand-made tools to help measure.
- [Simple Machines \(PDF\)](#): Students will design and build a Rube Goldberg contraption utilizing as many simple machines as possible. Some materials provided, others need to be brought. Students get extra points for bringing a blueprint.

# Events

## Information and Fact-based Events

- [Starry, Starry Night \(PDF\)](#) : This event is to demonstrate the students' knowledge of constellations, stars, and the local solar system. Written test on basic space facts and constellation/star identification.
- [Changing Earth \(PDF\)](#) : Students demonstrate their knowledge of the Earth's geologic history and of geology concepts. Written test on layers of the Earth, different eras, and topographical mapping.
- [Rocking Out \(PDF\)](#): Contestants identify rocks and minerals during a specified amount of time. Student created chart allowed.

# Events

## Information and Fact-based Events

- [Don't Bug Me \(PDF\)](#): The contestants are to distinguish insects from non-insects, identify various body parts, and know other arthropod characteristics. Student created, hand-written chart allowed.
- [Anatomy \(PDF\)](#): Piece together a body system puzzle and answer body system questions
- [Triathlon Relay \(PDF\)](#): Three physical skills are interspersed with science questions in an obstacle course. Memorize answers to the BrainQuest cards for 5th and 6th grade – science questions only – and perform a physical task.

# Events

## Combined or Scientific Process Events

- [Perplexing Powders \(PDF\)](#): Students identify mystery powders. Be able to identify mystery white powders in a container. Powders will be mixed together – 2 or 3 powders together in one container. A student-created chart is allowed.
- [Circuit Wizardry \(PDF\)](#) : This event will test students' knowledge of simple direct current electric circuits. Be able to build a circuit by diagram using a snap circuit set. Know electricity and digital circuitry symbols and information.
- [EGG DROP\\*](#): This is a non-competitive event

# Who can participate?

- **Students in grades 4, 5 and 6** compete in 15 science related events on the field day.
  - 5<sup>th</sup> and 6<sup>th</sup> students who are not in Science Olympiad should consider it
- Each student will participate in two or three events. In addition, many non-competitive events go on throughout the day making a festival atmosphere.
- **Teams consist of up to (16) sixteen participants and (2) two alternates.**
- Sixth grade is limited to (4) four participants.
- Teams may enter (1) one participant in an event if necessary, except: Mirror Magic (3), Triathlon.



# Cost: \$40 per child donation

- Registration- paid
- Additional cost
  - Cost of material
  - Cost of t-shirt

## How to pay?

- Write a check to “The Design 39 Collaborative”
- Write “**Science Field Day and your child’s name**” in the memo area of the check.
- Drop off at the Welcome Center
- Deadline October 21, 2016

# Participant Selection Criteria

- Coaching class attendance
- Score in class quizzes
- Class participation- coaches discretion
- Parent Coach- coaches child or children get preference

# What next?

- Register by October 21, 2016
  - Fill out the sign up sheet – [Google form](#)
  - Write a check for \$40, payable to “The Design 39 Collaborative”
  - Write **“Science Field Day and your child’s name”** in the memo area of the check.
- Need coaches- register through the form
  - Level II clearance required
- Commitment- students, parents, volunteers and coaches
  - Science Field Day Expo at D39- Date **TBD**
  - Classes start from first week of January, 2017

# Have Questions?

- Information and Updates here

<http://design39campus.com/science-field-day-team/>

- Main contact: Avnita Gulati at

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Appendix

# Rules

- All schools participating must either captain an event, co-captain an event, or provide a non-competitive event.
- Individual event rules are established by event captains.
- Event captains will settle any dispute or controversy; their decision is final.
- Awards will be given in each event as follows: 5-first place, 5-second place, 5-third place, 5-fourth place, 5-fifth place.
- All events begin on time; late arrivals will forfeit the event.
- Event captains will check-in each event participant. Students not officially entered will be denied entry. Coaches are responsible for communicating with each event captain if an alternate is used.
- Teams consist of up to (16) sixteen participants and (2) two alternates. Sixth grade is limited to (4) four participants. Teams may enter (1) one participant in an event if necessary, except: Mirror Magic (3), Triathlon.
- Alternates are used only if someone is sick or unable to attend. Sixth grade alternates may only replace sixth grade participants.
- The two alternates may attend the Field Day and participate in the non-competitive events.

# Rules

- Coaches, event captains, and co-captains are responsible for recruiting parent support.
- Each team provides supervision of students during the entire event. Parents, students, and teachers must remain on campus during the entire event.
- Each team will have a team assembly area. It is recommended that each team provide shade cover, food and water.
- Food is allowed in outdoor areas only. Teams are responsible for keeping the grounds clean. Coaches are responsible for making certain their team keeps the grounds clean. Food, snacks and drinks will be available throughout the day at the snack bar.
- Athletic equipment is not allowed on campus on the day of the event.
- Teams acting in an inappropriate manner may forfeit the event and will not be asked back.