

The background is a dark, textured surface with faint, light-colored sketches of various scientific and mathematical concepts. These include a globe in the upper left, a large letter 'V' in the top left, a microscope on the left side, a stack of books at the bottom left, a plus sign and a cross in the bottom center, an open book with text in the bottom center, and a percentage sign and an exclamation mark in the bottom right.

# **San Ramon Elementary Science Olympiad 2017-18**

Rithvik Ramesh

# What is Science Olympiad?

A scientific competition for students to show off their science skills and have fun doing it. The competition allows hands-on activity and is rewarding to any who participate.

SCIENCE OLYMPIAD



## Why should you do it?

Science Olympiad prepares students for a future that will require a lot of scientific and technological experience (especially in today's society). Science Olympiad also builds strong life skills like teamwork, thinking on your feet, and organization/management.

...and you get prizes!!!



# How does it work?

1. Attend information session. Step 1 Complete!
2. Form a team of 6 students (4<sup>th</sup> and 5<sup>th</sup> graders from same school)
3. Pick a Coach/Manager.
4. Register for the Olympiad(nominal fee)
5. Prepare for your events
6. Compete and Win!



## How does it work?

Elementary Science Olympiad consists of 7 events:

- 3 Theory Events
- 3 Practical/Build Events
- Triathlon

Will take place during a weekend in mid-late April (TBA).

# Elementary Science Olympiad 2017-2018 Events (Tentative)

## **Theory Events**

- **Reach for the Stars**
- **Ecology**
- **Science Jeopardy**

## **Build Events:**

- **Battery Buggy**
- **Rubber Band Catapult**
- **Energy Box/Cool It**

# Theory Events

## Reach For The Stars

- Students will be questioned on astronomy as well as basic meteorology.
- Ex: For sake of convenience, astronomers have divided the sky into 88 \_\_\_\_\_, groups or clusters of stars. 12 of these form recognizable pictures and combine to form the astrological zodiac.

Constellation(s)



# Theory Events

## Ecology

- **Students will be asked about the ecology of our planet relating to the interactions between organisms and their environments.**
- **Ex: Which biome has the greatest biodiversity and is most commonly found in the tropical latitudes? Examples include the Sumatran and the Amazonian.**

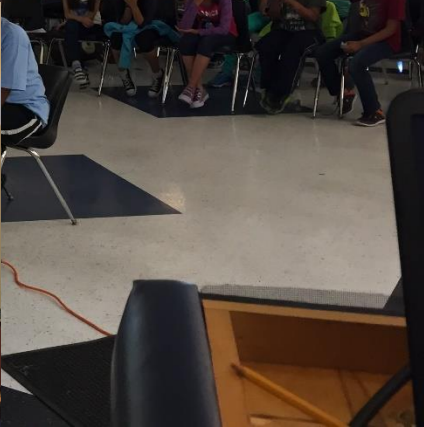
## Rainforest



## Theory Events

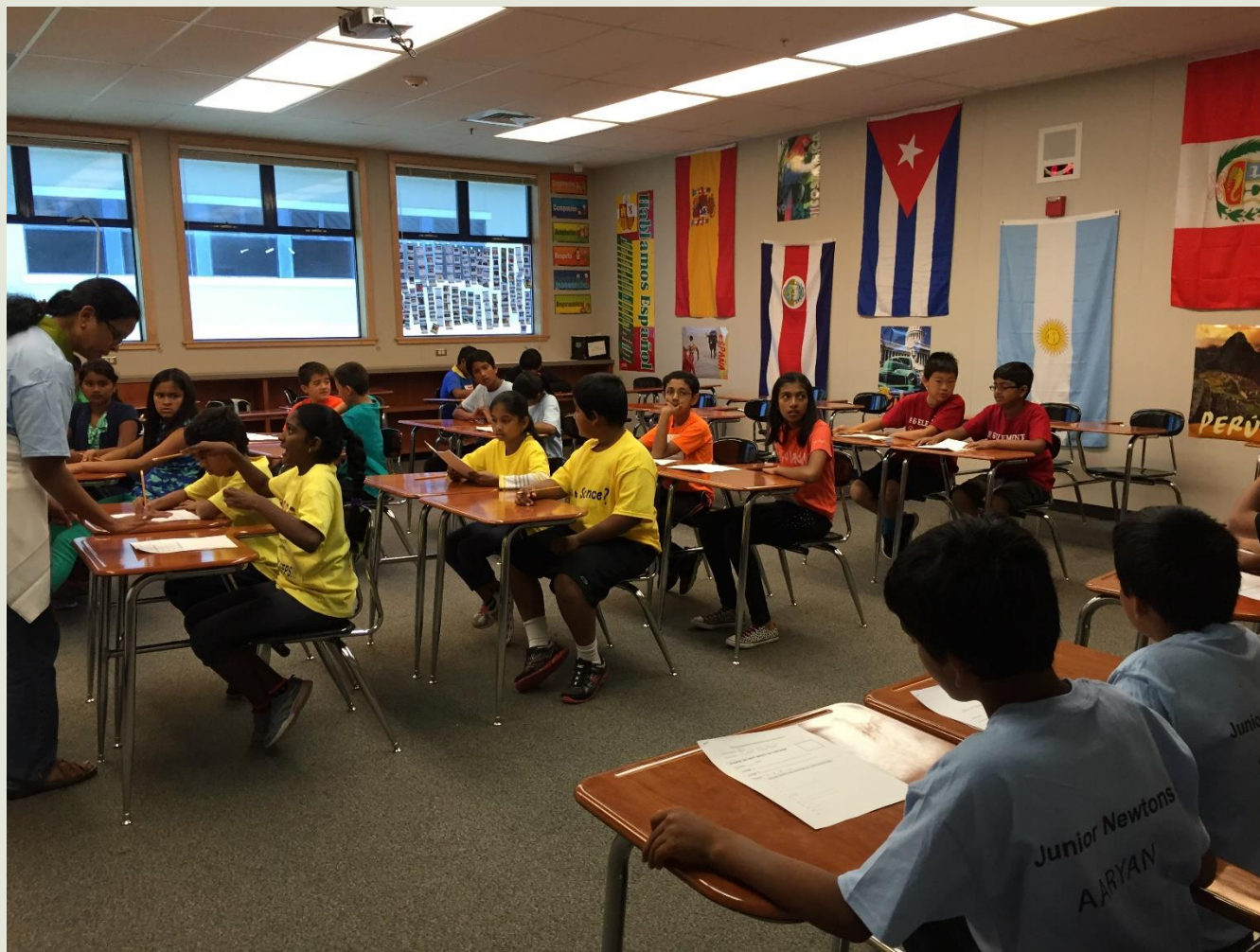
### Science Jeopardy

- **First, students will be given a preliminary written exam on general science, from which the top 3 teams will be selected to compete in a Jeopardy style (buzzer) competition.**





# Theory Events



# Build Events

## Rubber Band Catapult

- Students will design and construct a catapult/projectile device to shoot a rubber band onto the target placed at a specified distance.

## Battery Buggy

- Students will create a battery powered car that is able to travel a certain distance in the straightest path in the fastest time

## Energy Box/Cool It

- Students will create a container from common materials that will keep a beaker of hot water hot or cold water cold for a certain period of time.











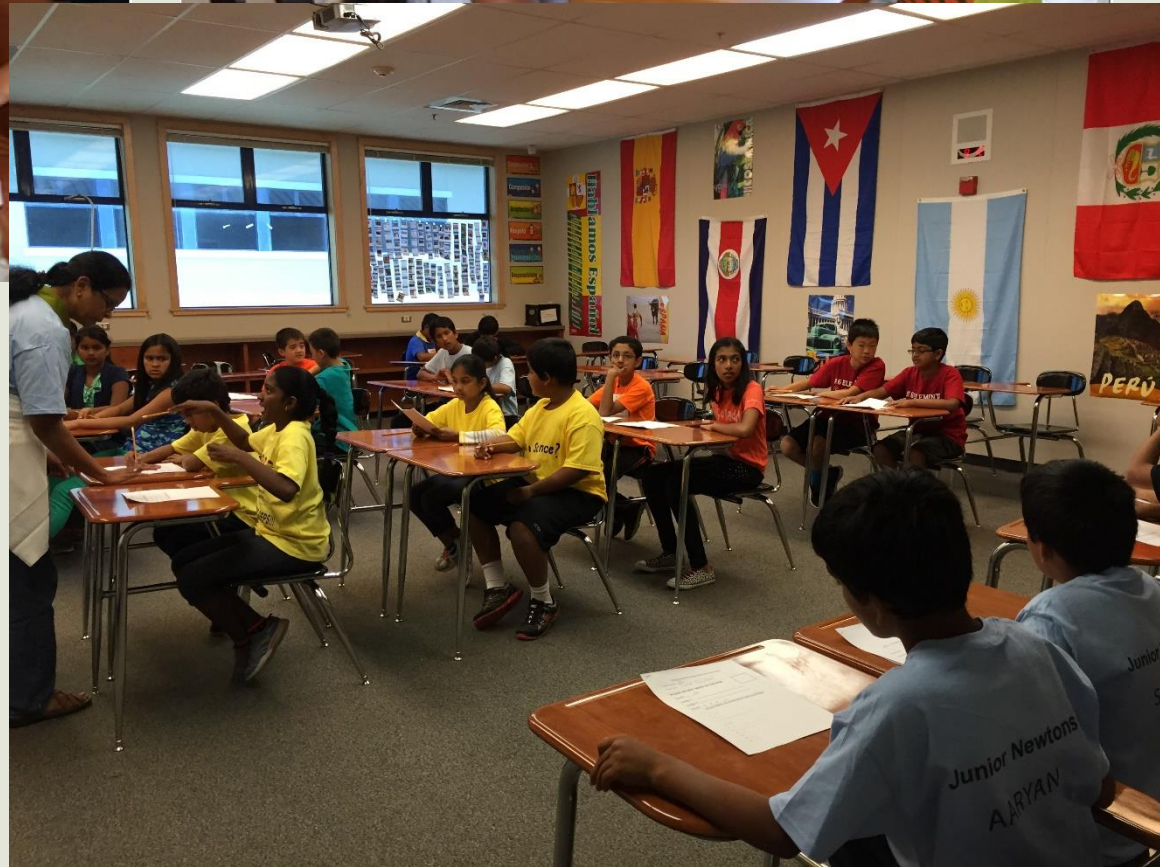
# Triathlon

- 3 tables are set up, and at each table are 2 members of your team and a set of questions. After completing the set of questions, the 2 members must complete a physical activity (such as carrying a marble on a spoon) to the next table, where the next 2 members will be waiting.
- Students will be judged on how fast their team completes the course and how many questions they have correctly answered.









**It's a lot of hard  
work...**





But it's also a lot of fun...



# Bay Area Elementary Science Olympiad 2011-12 Winners





# Registration

1. Form a team of 6 students (4<sup>th</sup> and 5<sup>th</sup> graders from the same school).
2. Select a team parent to be the coach.
3. Coach must email me at [rr.sreso@gmail.com](mailto:rr.sreso@gmail.com) with the following info:
  - Names of 6 students.
  - Grade level of 6 students.
  - School Name
  - Coach Name, Email, and Phone Number.
4. Coach will receive confirmation email.
5. Coach will attend Coach Seminar and turn in registration form and fee.

Registration Deadline:

Fri., November 24<sup>th</sup>

# Any Questions?

Contact me (Rithvik Ramesh):

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<http://rameshrithvik.wix.com/sreso>