

San Ramon Valley Science Olympiad

2022 - 2023



What is Science Olympiad?

- Science Olympiad is a large team event designed to explore the scientific field of education.
- Elementary Science Olympiad combines both knowledge based science and hands-on science in a competition format.
- Multiple teams will be broken up to work on their specific events.
- The events will surround scientific processes, knowledge, and application.



Our Team

Board of Directors: Alagu Subramanian

Executive Sector: Arav Bhattacharya, Sundar Subramanian

Operational Sector: Pranav Hegde, Fatimah Hussain, Pranav Vudumula

Build Events Committee: Praveer Balaka, Ayan Bhatia, Auron
Bhattacharya, Ansh Gandhi

Theory Events Committee: Akshay Kannan, Megha Guntuku, Arush Jain,
Ali Siddiqui

Instant Challenge Committee: Adviti Aleti, Nikitha Bangalore

2021-2022 SRVSO Teams - 39 total

Bollinger Canyon - 5

Virtual Academy - 1

Golden View - 2

Alamo - 1

Montair - 1

Quail Run - 7

Bella Vista - 9

Live Oak - 4

Coyote Creek - 2

Twin Creeks - 2

Neil Armstrong - 2

Hidden Hills - 2

Sycamore Valley - 1

Why you should join Science Olympiad!

- Science Olympiad rewards students with vital life skills like **organization, leadership, confidence, teamwork and much more.**
- Science Olympiad prepares the young generation for success in future years of middle school, high school, and beyond.
- Work as a team to be rewarded for the pursuit in scientific achievement.
- Learn science in a fun and creative way
- Learn to operate in a competitive environment
- Become self-motivated and inspired to explore various fields of science





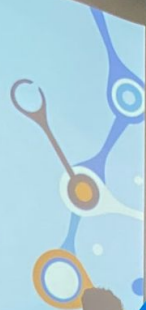


Bug Me

stein (BV5)

/zirs (BV9)

Brains (BV1)



How Can I Join the SRVSO Family?

1. Attend one information session.
2. Form a team of 6 students from the same school. (4th and 5th graders).
3. Choose a team Coach.
4. Register for the Olympiad (team/participant fee).
5. Prepare for your events.
6. Have fun!

Competition Format

Elementary Science Olympiad consists of 7 events:

- 3 Theory Events (2 members per event)
- 3 Build Events (2 member per event)
- 1 Instant Challenge (All 6 members will participate)

Competition Date: Will take place during a weekend in mid-late March (TBA).

Theory Events

- Theory events can be thought of as a test of knowledge in a specific subject.
- Teams prepare for the event by studying the content for months prior to competition day.
- Theory events also test critical-thinking skills relevant to the given subject.

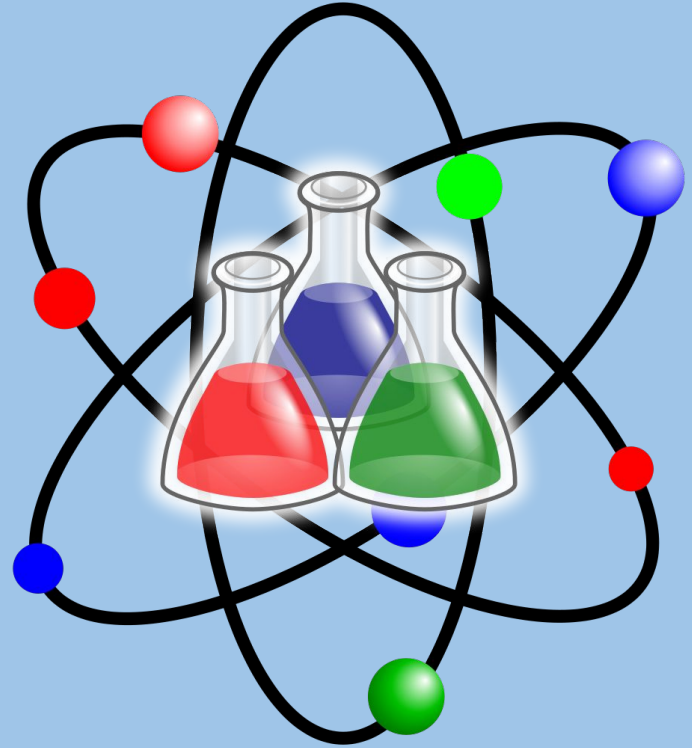


2022-2023 Theory Events

Food For Thought

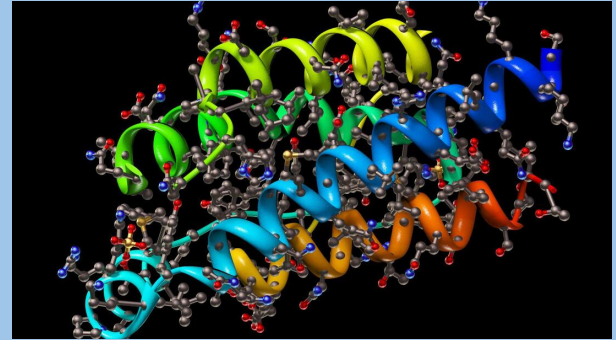
Weather or Not

We've Got Chemistry



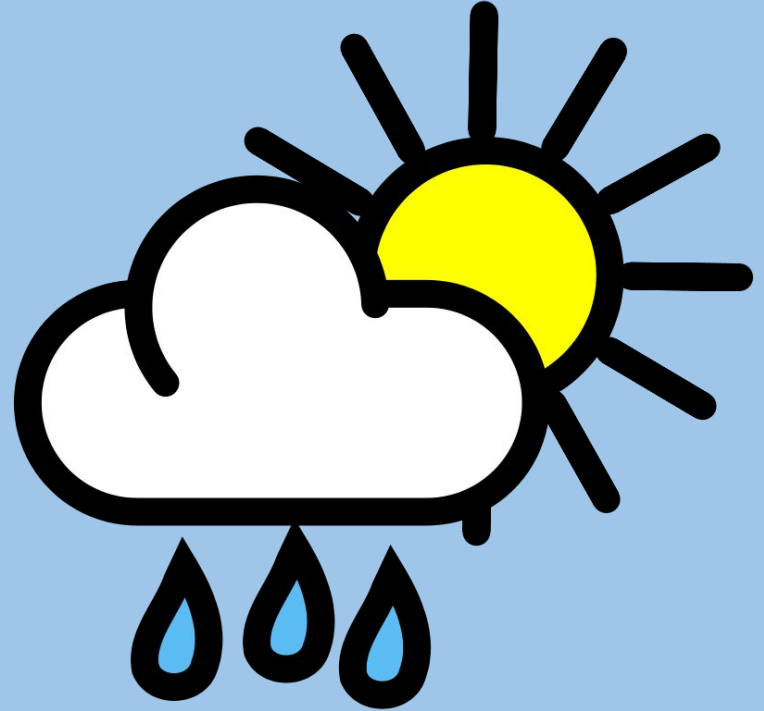
Theory Event: Food For Thought

Students will be asked various questions about the 4 main macromolecules, carbohydrates, proteins, lipids, and nucleic acids. They will also be asked to use critical thinking skills to sort varying foods into the USDA food groups.



Theory Event: Weather or Not

Students must think critically to answer questions regarding the Earth's weather, water cycle, energy, and water resources.



Theory Event: We've Got Chemistry

Students will be tested on their knowledge of chemistry along with the properties, composition, and structure of elements and compounds and how they can change.



Build Events

Students will build contraptions and objects under guidelines to serve specific purposes. (Impound rules included).

Teams will prepare for the event by building prototypes and tweaking the project to create the best performing final product

The final product is then tested under the guidelines in front of a judge.



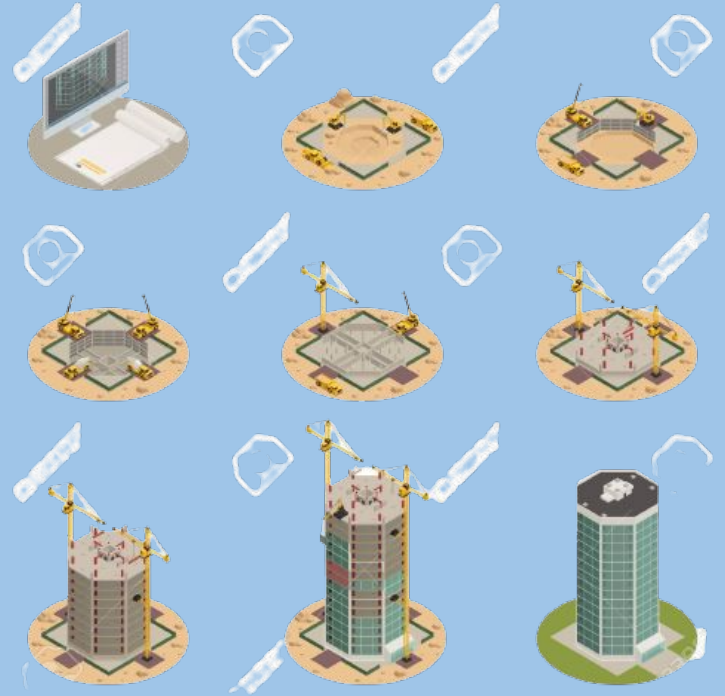
Teams will be required to document their project in the form of a build binder this year.

2022-2023 Build Events

Egg Drop

Trebuchet

Mission Possible



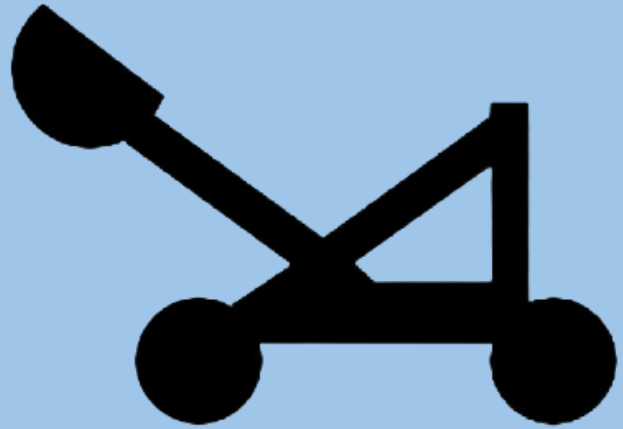
Build Event: Egg Drop

Participants will create a package using certain materials to protect an egg from breaking after being dropped from free fall.



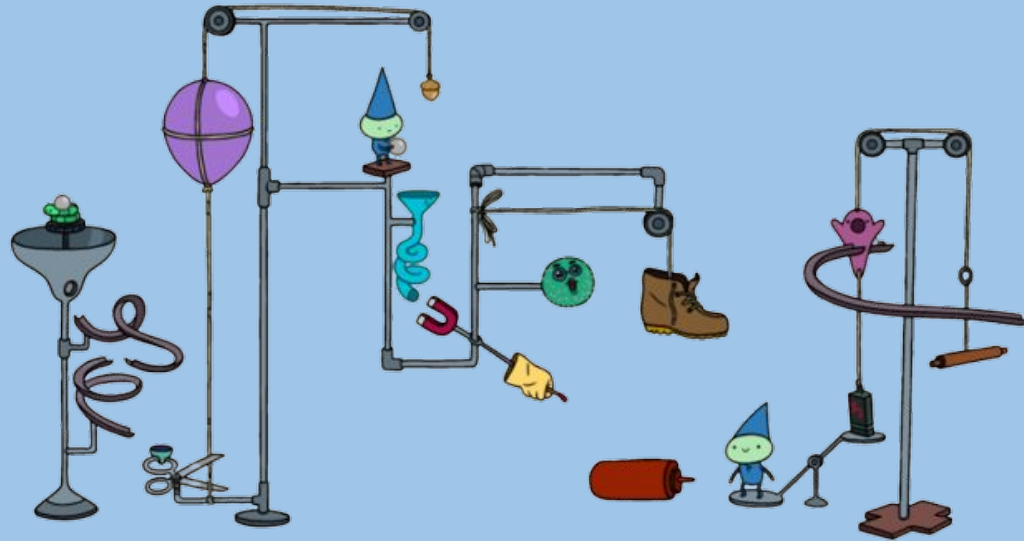
Build Event: Trebuchet

Participants will build a Trebuchet or Catapult to launch a hacky sack as far as possible. The trebuchet or catapult must be able to launch utilizing either springs, rubber bands or another means of elastic force.



Build Event: Mission Possible

Participants will design, build, and test a Rube Goldberg-like contraption prior to the event. The device will be used to accomplish a task in 2 minutes. Each team will have the same task.



Instant Challenge

The instant challenge is a rapid-fire event in which teams must brainstorm ideas for completing their given task under a very strict time limit. After only a few minutes, they must present their idea to a judging panel! The team's solution to the task and their presentation will both be graded based on various criteria. The instant challenge details will be released on the day of the olympiad.

Registration: Next Steps

1. Form a team of 6 students (4th and 5th graders from the same school).
2. Select a team parent to be the coach.
3. Coach will pay a teamwide fee of \$150.
4. Coach must fill in a REGISTRATION google form (will be uploaded on the website & emailed to all attendees) with the following info:
 - Names of 6 students
 - Grade level of 6 students
 - School Name
 - Coach Name, Email, and Phone Number
 - Payment Confirmation
5. Coach will receive confirmation email (3-5 days after submitting).

Registration Opens:
2nd week of Oct.

SIGN UP AS SOON AS POSSIBLE

Deadline To Register:

October 23, 2022

11:59 PM

Event Day

Tentative Event Day Near Mid- to Late-March

**SCAN ME TO
ACCESS TODAY'S
SLIDESHOW** (or
click/type link
below)

**[https://tinyurl.com/
srvsoinfonight](https://tinyurl.com/srvsoinfonight)**



Any Questions?

Contact us:

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srvso.org