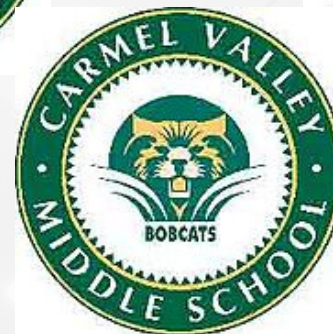
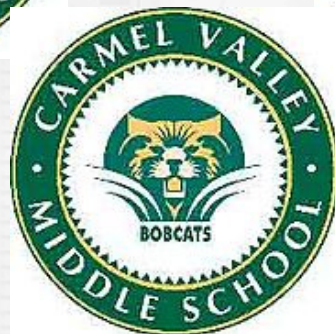


CVMS Science Olympiad

Information Meeting





What is the Science Olympiad?

- Annual science competition
- 23 different events of 50 minutes each
- Compete against other San Diego Area middle schools at San Diego Regional.
- Run like a sports competition, only with science

Sci-O Benefits



- Promotes teamwork & collaboration
- Improves study skills
- Exposure to sciences outside of regular science class
- Fun

Science-0 Student Requirements



- Weekly Training → Oct – Feb 6th
- 4-6 hours per week
- Attendance & participation at all trainings
 - team event – others rely on your participation
- Completion of work assigned by coach(es)
- Adherence to CVMS rules
- Prior subject knowledge is **NOT** required – but willingness to learn is.
- Enjoy it.



Science-0 Coach

- Adherence to coaching schedules
- Coach an enthusiastic group of 10-12 middle schoolers
- Learn the event along with the students
- Make it fun and have fun!



SO Competition

- SO is a team competition
- CVMS may send up to 6 teams (90 students)
- Top performers from any of our teams may qualify for state competition (April)
- Individual medals as well as team medals



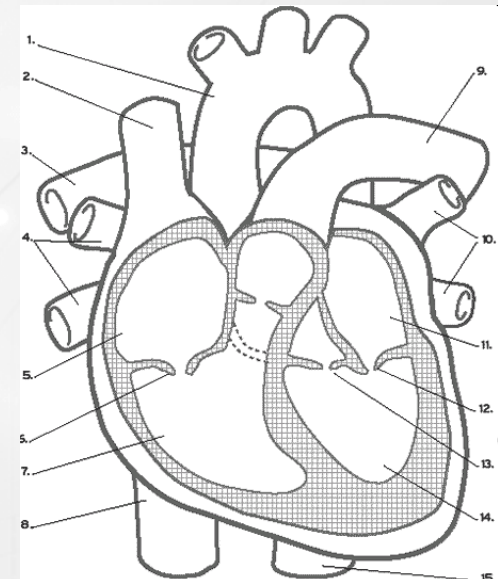
SO Events

- 23 events for this year
 - Life, Personal & Social Science
 - Earth and Space Science
 - Physical Science & Chemistry
 - Technology & Engineering
 - Inquiry & Nature of Science
- *What follows is a very inadequate summary of the 23 events. (for more info talk to coaches, use the internet, ask other students)*



Anatomy

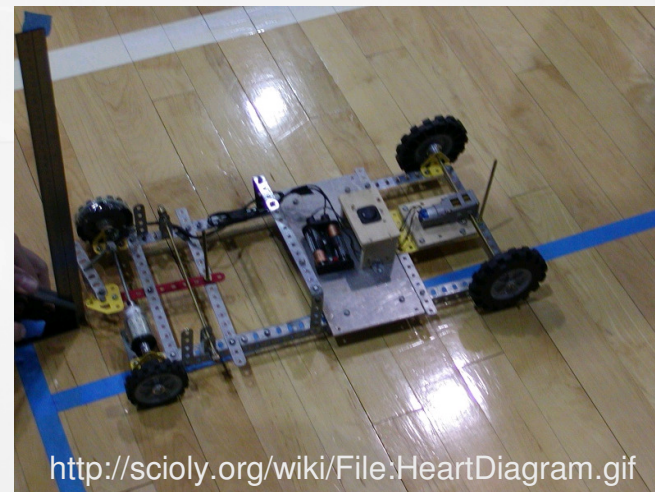
- Test event
 - Teams will be tested on their knowledge of anatomy and health concepts including skeletal and muscular systems.
- 2 team members





Battery Buggy

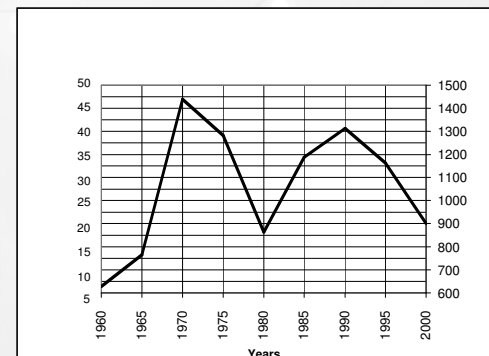
- Construction Event
 - vehicle uses electrical energy for propulsion, travels a specified distance, and stop as close as possible to the finish line.
- 2 team members



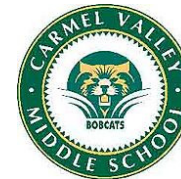


Bio-Process Lab

- Testing Event
- Lab oriented competition
 - series of lab stations.
 - Use process skills to answer questions and/or perform task (e.g. use a microscope to make observations, measure pH, temperature, mass, etc).
- Two team members

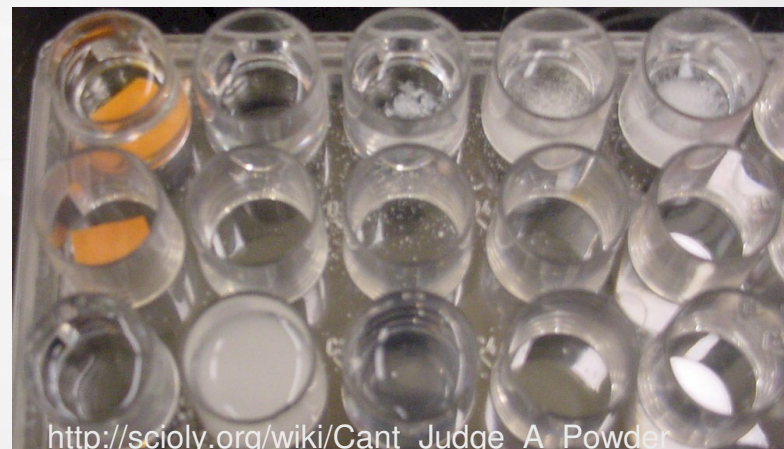


<http://newyorkscioly.org/SOPages/Events/BioProcess.html>



Can't Judge a Powder

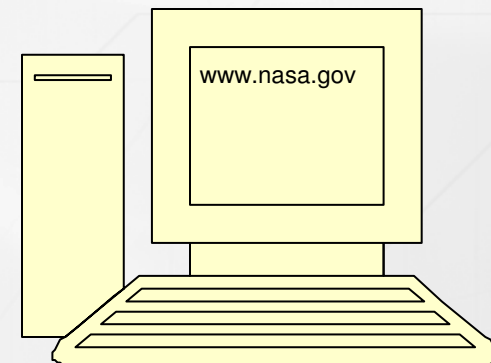
- Test
 - Students will test and characterize one pure substance and then answer questions on that substance.
- Two team members





Compute This

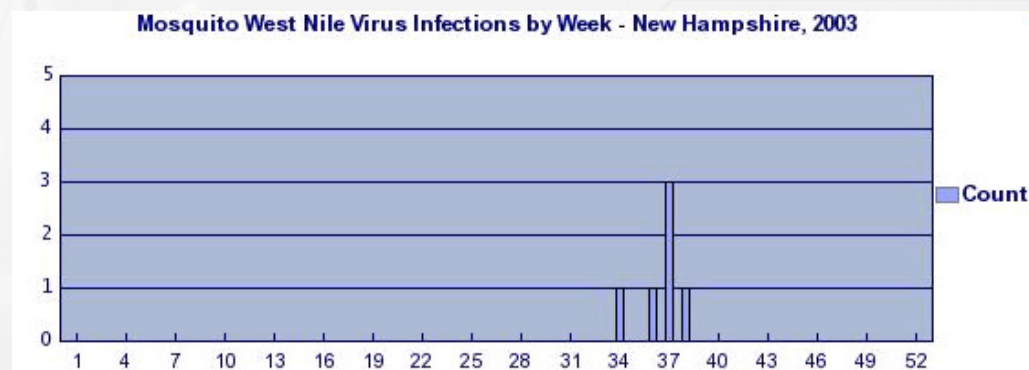
- Test Event
 - Teams solve a problem relating to **SPACE SCIENCE** and **EXPLORATION** using the internet, spreadsheets, and graphing.
- Two team members





Disease Detectives

- Test
 - Investigate disease, injury , health and disability in populations -> predict outcomes or effects on populations (*epidemiology*)
- Team of 2



http://scioly.org/wiki/Disease_Detectives

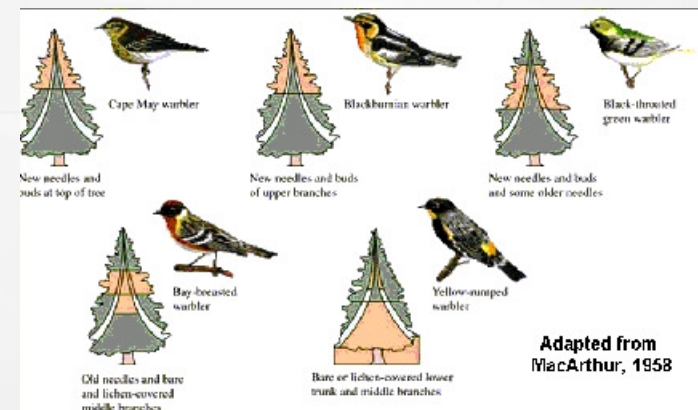


Dynamic Planet

- Test Event
 - Use process skills to complete tasks related to earthquakes & volcanoes.
- Team of 2

Ecology

- Test Event
 - Content knowledge and process skill in the area of ecology and adaptations in North American biomes
- Team of 2



<http://scioly.org/wiki/Ecology>



Elevated Bridge

- Construction Event
 - Design and build the most efficient bridge
- Team of 2



http://photos-a.ak.facebook.com/photos-ak-sf2p/v356/160/102/1513803783/n1513803783_30062560_6521.jpg



Experimental Design

- Test Event
 - Design, Conduct, and Report findings of an experiment conducted on site.
- Team of 3

Fossils

- Testing Event
 - Fossil identification and ability to answer questions about classification, habitat, ecologic relationships, behaviors and the use of fossils to date and correlate rock units.



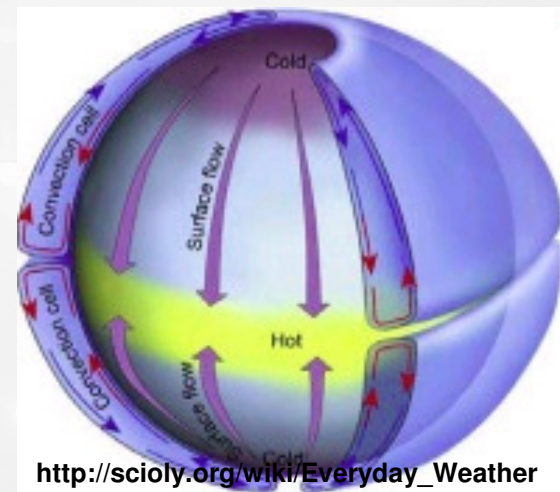


Junkyard Challenge

- Building Event
 - Construct a device on-site using only material and tools that fit in a “junk box” that solves a “creative engineering challenge”
- Team of 2

Meteorology

- Test Event
 - Basic meteorological principles with emphasis on interpretation and analysis of meteorological data
- Team of 2





Ornithology

- Test Event
 - Test knowledge of North American birds
- Team of 2



<http://www.mbr-pwrc.usgs.gov/>



Pentathlon

- Test event
 - **5 Physical and academic challenges.**
 - Example: Sort liquids by pH; Sack racing
- Team of 4



Physical Science Lab

- Building Event
 - Build a blade (propeller) assembly that captures wind power to generate a voltage.
- Team of 2



Road Scholar

- Testing event
 - Interpret one or more state highway maps, internet-generated maps, or road atlas and one or more USGS topographic maps
- Team of 2



<http://scioly.org/wiki/File:Riverprofiling1.jpg>

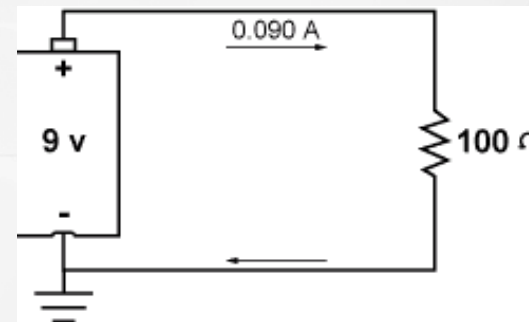


Science Crime Busters

- Test Event
 - Students perform a series of lab tests to solve a crime.
- Team of 2

Shock Value

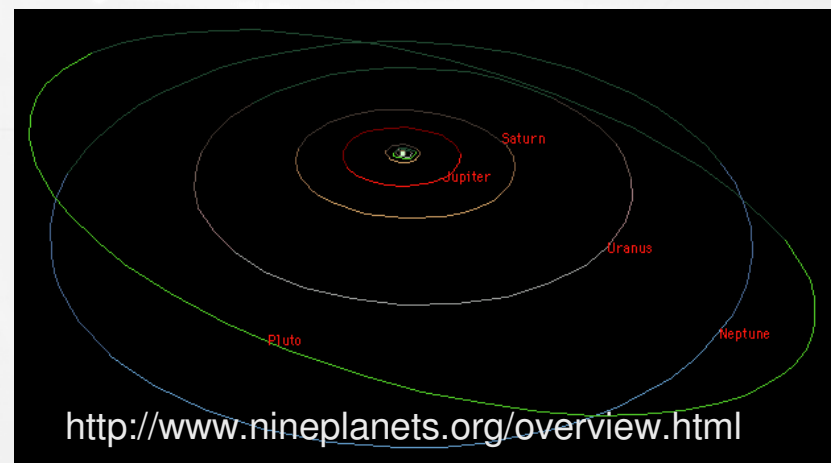
- Test Event
 - Activities related to basic understanding of electricity, magnetism and simple electrical devices.



http://scioly.org/wiki/Shock_Value

Solar System

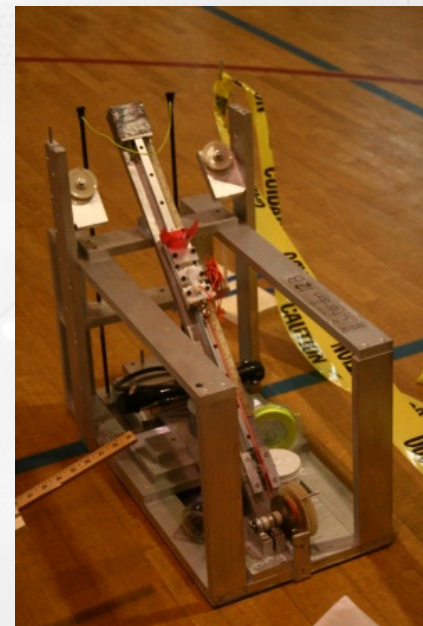
- Test Event
 - Sun, planets and their satellites, dwarf planets, comets, asteroids, the asteroid belt, meteoroids, Oort Cloud and the Kuiper Belt.
- Team of 2





Trajectory

- Building Event
 - Design, Construct and Calibrate a device that launches a projectile into a target area
- Team of 2



http://www.scioly.org/w/images/thumb/1/11/2009_TrajectoryB_3rd.jpg/300px-2009_TrajectoryB_3rd.jpg

Wright Stuff

- Building Event
 - Construct and test rubber motor powered monoplanes with a single propeller assembly to achieve maximum flight times.
- Team of 2

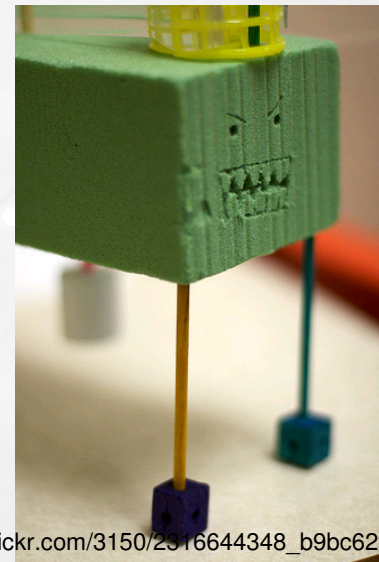


http://www.indoorduration.com/HarlanBrochure2006_files/image018.jpg



Write It Do It

- Test Event
 - One partner writes how to build something, the other partner reads those directions and tries to build it.
- Team of 2



http://farm4.static.flickr.com/3150/2316644348_b9bc62fd08.jpg?v=0



Application Form

- Coach Volunteer Forms
- \$125 registration contribution
- Student Event Request and Availability Forms
 - Request 8-12 events in preference order
- Download application from <http://www.cvmsolympiad.com>
 - Return *complete* applications to attendance window.
 - Applications are time stamped in order received.
 - Max capacity 90 students – first come first serve
 - Incomplete applications will not be accepted



Event Assignment

- Best effort made to match up students with their requested events
 - Match time slots of coaches and students
- Students of coaches get priority for the event their parent or guardian coaches
- Those choosing 4 events may get more of their high priority requests
- Only one building event (except for 4 eventers)



Program Contribution

- Science Olympiad is funded through participants
- CVMS SO gets no direct financial support from the school
- Money is used for
 - Reusable and/or common materials (e.g. books, maps, fossils, chemicals, etc.)
 - Copying and printing
 - Office supplies
 - T-shirts
 - awards
 - Competition day food
 - Competition registration fees
- Building events may require additional funds from participants of those events (e.g. airplane kit)

CVMS SO Volunteers



Committee

Bryan Chin & Usha Sinha

Scheduling

Amanda Chin
Jenny Gao
Purvi Gajiwala
Tong Tang

Librarian

Sherry Cheng

Coach Coordinators

Usha Sinha
Krishna Jagannathan

Coaches
(assignments
being made)

Fianance

Amy Zhao
Jennifer Hu
Krishna Jagannathan

T-Shirts

Jacqueline Ross

School Liason

Karl Francis
Jacqueline Ross

Competition Day
(all parents)

Attendance

Rajsari Kota
Tong Tang

Publicity

Jenny Gao

Competition Day

Usha Sinha
Purvi Gajiwala
Jun Wu



Parent Volunteers

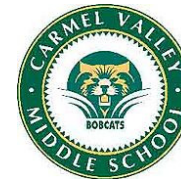
- **Can't do it without YOU**
 - Coach or Assist your Coaches
 - Help out on Competition Day
 - Support your Kids!

- **Relax and enjoy it!**



Important Dates

- October 6th
 - Turn in completed application and fee at attendance window
- October 9th
 - Last day to turn in application
- October 14th
 - Coaches Meetings (CVMS Media Center – 6:30pm – 8pm)
-
- February 6th – Regional Competition at Rancho Bernardo High School



More Info...

<http://www.cvmsolympiad.com> – our website!

<http://www.sandiegoso.org> – San Diego Regional website

<http://www.soinc.org> – national web site

<http://www.scioly.org/> - nice Wiki site for SO events!

cvms.so10.coor@gmail.com
