

Wildcat Summer STEM Camp



*A fun, competitive
STEM
enrichment,
experience!*

Presented by NVHS Science Olympiad Team/Coaches

Mon-Thurs June 13-16
9 AM- 12PM OR
1PM-5PM

Neuqua Valley High School Main Campus

Coaches:

Mrs. Mueller, Dr. Fuys, -NVHS Science Olympiad Coaches

Science Olympiad Team Captains/Members

Cost: \$250-payment due by May 27, 2022

Check made to Wildcat Summer STEM and dropped or mailed to Neuqua Valley HS c/o Paula Mueller

****Checks made payable to: Wildcat Summer STEM**

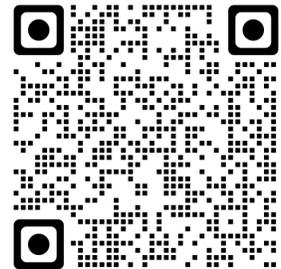
Enrollment: Open to students enrolling in 6th, 7th 8th, and 9th grades for the 2021-22 school year. Minimum 20 students. Maximum 48 students. There will be at least one coach/student leader for every 10-12 students. Max of 14 in any room at one time.

Registration: Sign up using the following

Google Doc link:

Registration link:

<https://forms.gle/ddNORKA3e4x77GgM8>



Mail checks to: Wildcat Summer STEM
Attn: Paula Mueller
2360 95th Street
Naperville, IL 60564

Registration is not complete until payment is received.

No refunds can be made.

For more information contact Mrs. Mueller at paula_mueller@ipsd.org

What is Science Olympiad?



Science Olympiad is a competitive club that brings science to life, shows how science works, emphasizes teamwork/collaboration, builds research skills, encourages problem-solving, and incorporates experimental design in all aspects of science and engineering.

It is about having fun, making new friends, goal-setting, and putting your scientific talents into further discovering biology, chemistry, physics, earth science, engineering, and technology.

Science Olympiad involves a dedicated commitment to hard work, personal initiative, and bringing your current knowledge of all things science to an even higher level. You will learn to take risks and go above and beyond your comfort level in the different areas of science.

Science Olympiad activities correlate directly with the Next Generation Science Standards and 3-Dimensional learning that involves Disciplinary Core Ideas of the various sciences, Cross-Cutting concepts across all areas, and Science and Engineering Practices.

Come join us for a fun week of activities, new friendships, and love of Science!

COVID 19: We require masks to be worn at all times. Strict social distancing will be adhered to including frequent hand washing/sanitizing.

Camp Agenda

During the week, we will engage students in a combination of the following hands on competitive STEM /Science Olympiad-type activities in a fun competitive environment giving incoming students a taste of what they will experience if they choose to join the Neuqua Valley Science Olympiad team when they are in high school.

Tentative Event Descriptions

Aerial Scrambler: Each student will assemble a balsa wood glider. They will be given supplies to alter or modify their glider for maximum flight time.

Ping Pong Parachute: Students design and build a rocket from a 1L bottle that will launch a ping pong ball attached to a parachute that must stay aloft for the greatest amount of time. Rockets are launched with an air pressure launch system.

Experimental Design Student partners are given a set of unknown objects and a rubric to design, conduct, analyze, and write a technical lab report using claim, evidence, and reasoning in their conclusions.

Copper Plated Nickels: Students will use a 9v battery and copper strips to electroplate a nickel.

Escape Room Student teams will work cooperatively to navigate their way through a room of scientific/mathematical/and reasoning clues to 'escape' with the solution to a problem.

Rubber Band Boat: Teams members will build a boat powered by a rubber band that will be scored on its speed navigating a 10 foot water trough.

Roller Coaster Students will create a paper roller coaster that must have specific parameters and they will receive points for including aspects such as loops and jumps in their design.

Giant Bubbles Students will design and build a device that generates giant soap bubbles. They will experiment with the formula for getting the bubbles to form best.