

# Wildcat Summer STEM Camp



*A fun, competitive  
STEM  
enrichment,  
experience!*

*Presented by NVHS Science Olympiad Team/Coaches*

**Mon-Thurs June 19-22**

**2 Options:**

**AM : 8AM-Noon PM: 1-5PM**

**Neuqua Valley High School Main Campus**

**Coaches:**

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

Science Olympiad Team Captains/Members

**Cost:** \$250-payment due by May 26, 2017

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

**Enrollment:** Open to students enrolling in 6th, 7th, 8th, and 9th grades for the 2017-18 school year. Minimum 20 students. Maximum 48 students. There will be one coach/student leader for every 10-12 students.

**Registration:** Sign up using the following Google Doc link:

**Registration link:**

AM session: <https://goo.gl/VgFYCF>

PM session: <https://goo.gl/fFcvMJ>

If the camp is full, you may go to the link below to be on our 'wait list'. We will call you if a spot becomes available.

**Wait List link:** <https://goo.gl/dGyZcO>

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@ippsd.org](mailto:paula_mueller@ippsd.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!

## *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.

## *Event Descriptions*

**Write It Do It** Students engage in a technical writing exercise where one student writes a description about a contraption and their partner will attempt to reconstruct it using only their partner's written description.

**(Scrambled!) Egg Drop** Teams of students will design, build, and test a device that will keep an egg intact upon impact!

**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.

**Crime Busters** Students run various qualitative and quantitative lab tests to solve a crime scene scenario

**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 Vehicle** Student teams will build and road test a rubber band vehicle.

**Crime Busters** Students will perform various forensics tests to see 'whodunit' in a given crime scenario.

**It's About Time** Students will design, build, calibrate, and test a timing device

**Junkyard Challenge** Students will design and build a device that performs a specific task but using ordinary miscellaneous 'junk'!