

Camp Dates/Time/Location

- Monday June 11-Thursday June 14,2018
- 8 am– noon or 1-5pm at Neuqua Valley High School-
Main Campus
- Room C101

Coaches:

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

Science Olympiad Team Captains/Members

Cost: \$250-payment due by June 1, 2018

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

Enrollment: Open to students enrolling in 6th, 7th, 8th, and 9th grades for the 2018-19 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:

goo.gl/juedgq

If the camp is full, contact Mike Fuys at michael_fuys@ipspd.org to be placed on the waiting list.



Why STEM Education?

“STEM education is defined as the preparation of students in competencies and skills in the four disciplines (science, technology, engineering, and math). A successful STEM education provides students with Science, Math, and Engineering/Technology in sequences that build upon each other and can be used with real-world problem applications.

STEM education creates critical thinkers, increases science literacy, and enables the next generation of innovators. Innovation leads to new products and processes that sustain our economy. This innovation and science literacy depends on a solid knowledge base in the STEM areas. It is clear that most jobs of the future will require a basic understanding of math and science. Ten year employment projections by the U.S. Department of Labor show that of the 20 fastest growing occupations that were projected for 2014, 15 of them required significant math or science preparation.

It is imperative that as a nation, we make STEM education a top priority.”

Source:  www.isa.org

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

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

Wildcat Summer STEM Camp



*Presented by NVHS Science Olympiad
Team / Coaches*

Mon–Thurs June 11-14
2 Options
AM : 8AM-noon
PM: 1-5PM

Neuqua Valley High School
Main Campus

*A fun, competitive
STEM
enrichment,
experience!*

*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.

Rotary Egg Drop Teams of students will design, build, and test a rotary 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.

Balls and Boats Students design and build a boat and are awarded for carrying the most cargo.

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

Storm the Castle Students will design and build a catapult device be judged on performance.

Alka-Seltzer Rocket Students will design and test an Alka-Seltzer powered rocket engine and compete for height and accuracy.

** Events may change slightly as we complete final plans for the week.

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