

The Science Academy at Park Shore Day Camp

Coming the Summer of 2013 to Park Shore Day Camp

450 Deer Park Road Dix Hills, Long Island New York 11746

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The Science Academy at Park Shore Country Day Camp is a Summer enrichment program run by Park Shore focused on STEM Education (Science, Technology, Engineering and Mathematics).

Our program will be student-centered, inquiry-based, and hands-on applications of Science and Engineering understandings. Students will be challenged through innovative and thought-provoking laboratory inquiries to develop hypothesis, test and analyze data, and draw pertinent scientific conclusions. These critical thinking activities are designed to develop a child's critical thinking, creative design skills, and their confidence in tackling new understandings of their universe. Activities at the Academy will encourage curiosity, creative thinking, and insight into the laws of Nature. With underlying principles in Physics, Chemistry, Life Science, Mathematics, and Engineering, children will develop a new way of approaching problems with the strength of the Scientific Method, with the confidence to engage in new ways of thinking, and will be prepared to defend and critique their understandings in Science.

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Our program will be universal in scope and sequence, truly integrating the basic sciences with the latest in technology and engineering. Students will have a core focus in four main areas:



Physical Science:

Students will explore the laws of Physics and Chemistry using inquiry-based laboratory investigations. Students will draw conclusions about the relationship between matter and energy.

Life Science:

Students will explore the natural laws of the living environment. Students will develop a “systems” approach to the flow of energy in the ecosystem, creating connections between living beings, plants, and planetary systems.

Robotics:

Students will explore the technology of robotics, a growing area in the 21st Century. Students will develop programming abilities, as well as a growing understanding of mechanical systems.

Engineering:

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Students will design and build a variety of projects applying the principles of the Engineering and Design process. Students will build and test, revise and redesign projects based upon measurable outcomes. Strength in mathematics, statistical analysis, and problem solving will be nurtured and developed.

GRADES 1-5: CHOOSE 2, 4, 6 OR 8 WEEK SESSIONS



Session 1: June 28th - July 12th
Session 2: July 15th - July 26th
Session 3: July 29th - August 9th
Session 4: August 12th - August 23rd

Science Academy Morning Session: 9:15am - 12:15pm

Lunch Available: 12:15pm - 12:50pm



Pick up is at 12:15 if your child is not staying for lunch or 12:50pm if your child is staying for lunch.

You can also sign your child up for the afternoon camp session.

Regular Camp Afternoon Session: 12:50pm - 4:00pm

(morning and afternoon transportation available for full-day Science Academy campers)

Afternoon activities include:

Sky Trail High Ropes Course, Bungee Trampoline, Rock Wall, Athletics, Arts and Crafts,

Free Swim, Nature, Performing Arts, a variety of Special Events, and so much more.

GRADES 6-9: AUTHENTIC SCIENCE RESEARCH PROGRAM

CHOOSE 4 OR 8 WEEK SESSIONS

Session 1: June 28th - July 26th

Session 2: July 29th - August 23rd

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Science Academy Afternoon Session: 1:30pm-3:30pm

Students will be engaged in a long term (4 or 8 week) research project under the direction of Science Academy Director, Julian Aptowitz. Cultivated to their individual interests in science, Mr. Aptowitz will guide students through the process of completing a controlled researched experiment, with a finished report and show board (ready for middle school science fairs) or 9th grade entry into LISEF (The Long Island Science and Engineering Fair at SUNY Farmingdale).

Scientific exploration takes place in Park Shore's four Science Labs as well as utilizing Park Shore's amazing 15 acre facility which includes a Nature Facility and Trail. Field Trips related to the area of exploration will also be scheduled (for morning sessions only).



Julian Aptowitz, Director of The Science Academy at Park Shore, is a High School Physics teacher at Half Hollow Hills High School West. Julian is also the advisor and founder of the First Robotics Team in Half Hollow Hills as well as the Science Olympiads Coach. Julian has been teaching Science for 20 years. He has a Master's in Education Technology from C.W. Post, an MA from SUNY Stonybrook and a BA from the University of Michigan.

For More Info Call 631-499-8580 or visit <http://www.parkshoredaycamp.com>