



YOUNG ENGINEERS AND SCIENTISTS

Summer Camps Valley Ridge Academy

105 Greenleaf Drive, Ponte Vedra, FL 32081

Young Engineers and Scientists (YES) is a program that provides students a comfortable and safe environment where they can be curious, excited and have fun exploring with friends. They will learn engineering, math, science. Students will have opportunities through hands-on activities and inquiry-based instruction to explore, comprehend, analyze, discover, and evaluate concepts while motivating one another. In addition, we teach students how to take the first step in problem solving and to overcome the fear of being wrong. Our goal is to provide a nurturing environment to raise students who are eager to reason, who are curious, who can persevere through difficult situations without giving up and who are willing to try new things by overcoming the fear making mistakes. Using STEM concepts, students design, build and test prototypes. They also learn how to explore and participate in evidence-based discussions. Grade levels indicate the school year just completed.



Summer Camp; 9 am- 3 pm, Mon - Fri; \$225 per week

Grades K-2 (yr just completed)	Grades 3-5 (yr just completed)	Grades 6-8 (yr just completed)
<p>Jun 8-12: Pharaoh, Pharaoh! Walk like an Egyptian as we discover the daily life of the ancient Egyptians through hands-on activities, problem-solving, and collaborative exploration.</p>	<p>Jun 8-12: YESCAMP Junior Scientist Learn the discipline of a research scientist; conduct experiments; learn how to design an experiment, identify variables, analyze the data and plot and present the data.</p>	<p>Jun 8-12: Biochemistry Investigate fermentation processes, acids and bases, reactivity of metals, analysis of foods for lipids, proteins, carbohydrates, and anaerobic respiration.</p>
<p>Jun 15-19: The Toy Factory Investigate your toys and learn how and why they work. Create your own toy using the principles of conservation of momentum, conservation of energy.</p>	<p>Jun 15-19: Rube Goldberg Engineering Brainstorm and build creative contraptions to solve everyday problems in a complex way using pulleys, wheels, dominoes, slides, marbles.</p>	<p>Jun 15-19: Architecture A Study of Math, Art, and Physics: Learn core engineering principles such as compression, tension, and their effect on the strength of towers.</p>
<p>Jun 22-26: Survival Science You're stranded in the wilderness with no food and water. Learn the practical - and fun! - Skills to survive.</p>	<p>Jun 22-26: Thinking like Thomas Edison Get into the mindset of an inventor and use our creativity and the scientific method to make that invention come to life!</p>	<p>Jun 22-26: Invention Convention Leverage your knowledge of forces, simple machines and conservation of energy to design, build and test your own new inventions.</p>

To register, please go to youngengineer.us, teducators@hotmail.com, 407-924-3179

School POC: Ms. Kathy Shirley

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