

**For what kinds of college careers does the STEM Academy prepare students?**

Due to their academic excellence and exposure to accelerated curriculum, STEM graduates are extremely prepared to meet the challenges of the most prestigious universities in the United States. They go on to pursue careers in medicine, engineering, mathematics, physics, chemistry, astronomy, biomedicine, architecture, computer technology, business, law and the humanities are the finest colleges in the nation.

**STEM Facts for Our Students' Future:**

- During the next decade, the United States demand for scientists and engineers is expected to increase at four times the rate for all other occupations.
- STEM jobs are growing at 1.7 times the rate of non-STEM jobs.
- 74% of college graduates with STEM degrees are going into non-STEM jobs, according to the Census Bureau. They're pursuing careers in everything from healthcare and law to education and social work.

**CRESTWOOD MIDDLE SCHOOL**

**STEM/ PRE-ENGINEERING ACADEMY**

64 Sparrow Drive  
Royal Palm Beach, FL 33411

Phone: 561-753-5000  
Fax: 561-753-5035



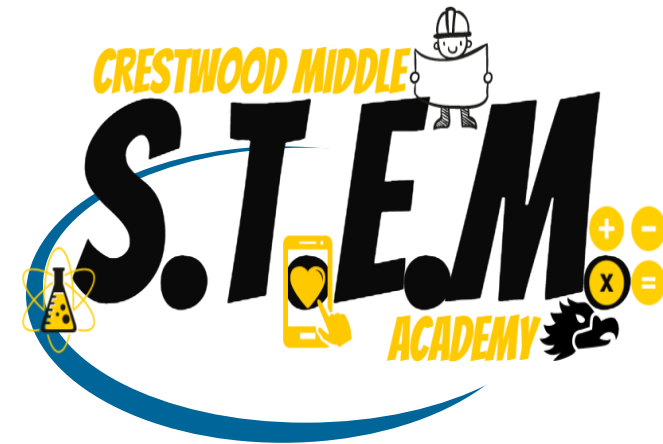
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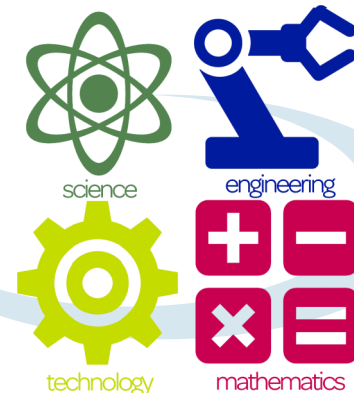
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*High achievement always takes place in the framework of high expectation.*

— Charles F. Kettering



**“Attitude Determines Altitude”**

## What is a STEM Pre– Engineering Academy?

The Science, Technology, Engineering, and Mathematics (STEM) Academy is a three year course of study designed to meet the needs of highly motivated students who wish to pursue studies in mathematics, science, engineering, drafting, physics, chemistry, and technology tailored to the curriculum.

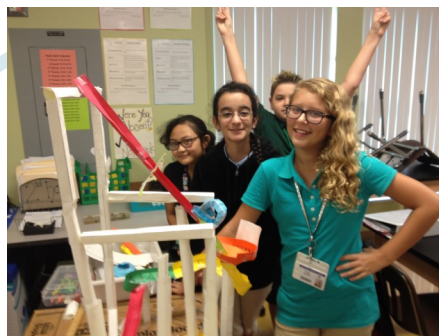


STEM in the classroom will involve concentrating in the STEM disciplines as well as interdisciplinary approaches and interconnectedness with other non-STEM subjects. A STEM classroom differentiates itself in providing more experiences for practice and engagement with visible tools and strategies.



## Characteristics of STEM Academy Students

STEM Academy students demonstrate talent in mathematics and science. Intelligent with extraordinary analytic abilities, STEM students solve problems creatively and are curious about the way things work. They are divergent thinkers who enjoy puzzles and games. While capable of independent achievement, STEM Academy students are comfortable working in a group environment as members of a problem-solving team. Possessing developed study skills and disciplined work habits, STEM Academy students are willing to meet difficult challenges. STEM Academy students are generally open-minded, resourceful, inquisitive, and highly motivated for success.



## Crestwood STEM Program Rollout

1st year- two 6th grade classes

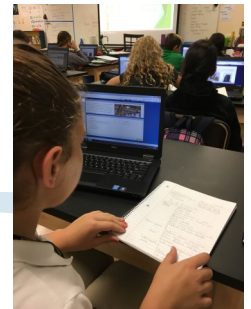
2nd year- two 6th grade & two 7th grade classes

3rd year- full implementation across all three grade levels

Will enhance and connect to STEM programs at high school level along with partnership with STEM program at Royal Palm Beach High School

## Projects Incorporated Into Curriculum

- Paper Roller Coaster Challenge
- Barge Building
- Mousetrap Cars
- Gliders
- Prosthetics
- Rockets
- Dragsters
- MIT Marshmallow Challenge



## STUDENTS WILL:

- Explore math and science in a personalized context
- Use engineering as the method for discovery, exploration, and problem solving
- Use technology to allow for deeper understanding of the other three aspects of STEM
- Use inquiry approach to explore core science ideas, develop scientific process skills, as well as developing critical thinking and problem solving skills