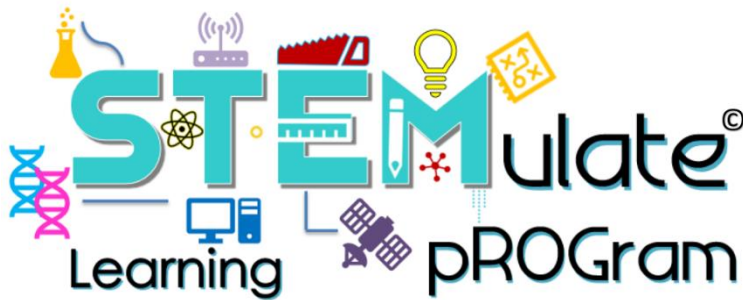




# Thomson Middle School

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*“To produce the next generation of innovators by embedding engineering practices and advanced technology in rigorous science and math classes.”*

## Program Overview:



The **STEMulate** learning program is a rigorous STEM program with a primary focus on aerospace science and engineering. Students selected for the program will engage in several cross curriculum, collaborative projects centered on NASA's Orion Missions.

The goal of the Orion Missions is to send humans to Mars by 2030. In 6<sup>th</sup> grade, students will focus on the vital role of coding and renewable energy in NASA missions. In 7<sup>th</sup> grade, students will research the impact of long term space travel on the human body and design innovations to protect humans on Mars. In 8<sup>th</sup> grade, students will use their knowledge of chemistry, wave energy, electricity, simple machines, and coding to design and engineer technology that makes life suitable and convenient to living on Mars. and other innovations vital to survival on the Red Planet and a successful return to Earth. Also unique to Houston County School System and **STEMulate** is Thomson Middle School's *first all-girls STEM Class of 2017* and *first all-boy STEM Class of 2019*. These special population classes engage at-risk students in coding, the engineer design process, and data collection technology to immerse in 3-dimensional learning.



Hands-on training



Fort Valley State University Partnerships

## Highlights:

- Students participate in various STEM competitions to include First Lego League, eCybermission, Regional & State Science & Engineering Fairs, Samsung Solve for Tomorrow, etc.
- Students complete an independent performance task in 8<sup>th</sup> grade which serves as a culminating program project.
- Students who successfully complete all three years will earn a maximum of 2 high school credits.

Where Will STEM Take You?

WATCH our video!



## SCIENCE • TECHNOLOGY • ENGINEERING • MATH

