

E. T. Booth Science Research € STEM Course Information

A unique academic opportunity at E.T. Booth Middle School for rising 6th grade students is the 18-week Science Research € STEM course. Students may continue on to the 7th and 8th grade research courses in preparation for higher-level science courses and the AP Capstone program at Etowah High School.

E. T. Booth Science Research € STEM students enjoy a unique curriculum where they learn “how to do science” through:

1. Learning and practicing independent research to find and synthesize information to understand a research topic.
2. Develop communication skills to compose and present an academic paper and project.
3. Use the principles of research methods (e.g., qualitative, quantitative, mixed) and descriptive statistical analysis.
4. Participate in Project/Problem-Based Learning throughout the 18-weeks, which incorporates student-generated ideas to design a solution within given constraints and develop collaborative teamwork skills.

The E. T. Booth Science Research € STEM course also guides students through the completion of an in-depth research project. Students learn how to find and use science literature pertaining to their chosen research problem, design and conduct a study, and report the results. Peer reviews help students refine their research protocol, analysis, conclusions and presentation abilities.

At the completion of their study, Fall semester students present their findings at a school-level Science and Engineering Fair. The highest scoring projects may proceed to the Northwest Georgia Regional Science Fair. Students who earn a First Place ribbon at the Region fair continue to the Georgia State Science Fair. Spring semester students present their research project to a board of Booth and EHS teachers, as well as parents and local subject matter experts. 6th and 7th grade students may continue their projects during the following Fall semester.

We look forward to your student taking part in this unique learning opportunity.

Thank you,

Dr. Lawrence Gruszecki

E. T. Booth Science Research € STEM

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