

# STEM Magnet Middle School @ BDJMS

## STEM Education

STEM Education is an approach to teaching and learning that integrates the content and skills of Science, Technology, Engineering, and Mathematics. The STEM Academy @BDJMS enables children in grades 6-8 to engage in rigorous tasks by examining and solving real world problems. Students are immersed in authentic, interactive investigations that encourage their curiosity and motivate them to learn how the world works and how to be the innovators of our future. Our school's instructional practices provide rich, hands-on learning experiences for all learners to develop lifelong learners. Students who complete our grade 6-8 STEM Academy will attend the Science and Tech Magnet High School of Southeastern Connecticut located at New London High School.

## Coursework

### STEM Math

The goal of STEM math is to explore the connections between the world around them and the world of mathematics. The STEM students will take the skills and understandings that they have already learned, discover new ways to apply these skills, and use them as building blocks to the next level of complexity and understanding. The STEM students will show their understanding by analyzing problems, gathering the necessary information, evaluating the best method for resolving the problem, and by implementing the solution successfully. They will learn more than just to give the right answer to a question; they will learn how to understand the solution so that they can apply their skills to new, unfamiliar problems down the road.

### STEM Science

In science, our students will develop STEM practices which include asking questions, collaboration, developing and using models, and planning and carrying out investigations. Students will also analyze and interpret data, construct explanations, engage in arguments from evidence, and communicate information. Our STEM students will integrate the content and skills of science, technology, engineering, and mathematics to be challenged and to apply their knowledge and skills to respond to complex everyday problems that will prepare them for the 21st century workforce.

### STEM Social Studies

The goal of STEM Social Studies is to form an appreciation of civilizations and to foster skills that promote citizenship and lifelong learning in all students. Students will develop chronological perspectives about the development of communities and civilizations. Additionally, students will integrate science, technology, engineering, and math skills into their interdisciplinary projects based on real world case studies.

## STEM English Language Arts

Our goals are to provide students with the opportunities to explore new learning, elaborate on skills previously taught, communicate ideas, and show comprehension of materials through responses, vocabulary, and writing skills. STEM students will accomplish these goals by integrating themes from science in our class discussions, comprehension of nonfiction text, and presentations. We will also be using various forms of technology and media to produce and publish writing pieces. Through STEM, we will explore our world and contribute to our learning environment.

## Community Partnership: NESS

### New London STEM Program

The New London STEM Leadership program at NESS is designed specifically to foster an interest in science, technology, engineering and math through hands-on integrated learning opportunities. NESS uses sailing, marine science and adventure sports as a catalyst for building teamwork, self-reliance, teaching respect and responsibility for the sea. Students will learn to be safe and comfortable while exploring the local ecosystems at Ocean Beach in New London, CT.

[www.bdjms.org](http://www.bdjms.org)

BDJMS

*Doing our best leads to success!*

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## BDJMS Administration

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