STEM
SUPPORT YOUR K-8 INSTRUCTION
America needs to increase the number of students pursuing STEM fields in their academic studies and careers, and improve preparation for the next generation of engineers, scientists, mathematicians, and technicians. Since the beginning of the 20th century, average per capita income in the United States has grown more than sevenfold, and science and technology account for more than half of this growth; the world today’s students will inherit will be one defined to an even greater degree by science and technology.*

*From Supporting Science, Technology, Engineering and Mathematics Education. www.Ed.Gov

Capstone Classroom’s packages will support your classroom instruction to foster learners who are:

• **PROBLEM-SOLVERS** - able to define questions and problems, design investigations to gather data, collect and organize data, draw conclusions, and then apply understandings to new and novel situations.

• **INNOVATORS** - creatively use science, mathematics, and technology concepts and principles by applying them to the engineering design process.

• **INVENTORS** - recognize the needs of the world and creatively design, test, redesign, and then implement solutions (engineering process).

• **SELF-RELIANT** - able to use initiative and self-motivation to set agendas, develop and gain self-confidence, and work within time specified time frames.

• **LOGICAL THINKERS** - able to apply rational and logical thought processes of science, mathematics, and engineering design to innovation and invention.

• **TECHNOLOGICALLY LITERATE** - understand and explain the nature of technology, develop the skills needed, and apply technology appropriately.

(as outlined by Hays Blaine Lantz, Jr., Ed.D., 2009)
Capstone Classroom’s packages will support your classroom instruction to foster learners who are versed in STEM content and topics and who are aware of and prepared for careers in STEM fields.

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<tr>
<th><strong>STEM</strong> education prepares all students for the challenges and opportunities in the 21st century economy.</th>
<th><strong>STEM</strong> education improves the impact and overall effectiveness of the state’s K-16 education system.</th>
<th><strong>A STEM</strong>-literate workforce adds value, productivity, and innovations to the state’s economy.</th>
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<tr>
<td><strong>SUPPORT POINT 1-1</strong> As technology becomes more sophisticated, and as more nations compete with the United States in the global economy, the next generation of students must be well-grounded in STEM to succeed economically.</td>
<td><strong>SUPPORT POINT 2-1</strong> Rigorous and relevant STEM education improves student achievement in all subjects and helps teach problem-solving, critical thinking and collaborative skills to all students.</td>
<td><strong>SUPPORT POINT 3-1</strong> <strong>STEM</strong>-literate workers help create a culture of innovation in business, reinvent business models and strategies, and create new products and processes—all critical components in economic development.</td>
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<td><strong>SUPPORT POINT 1-2</strong> The need for more rigorous and relevant STEM education is clear: American high school students trail behind many of their international peers in achievement. The 2006 PISA ranks U.S. 15-year-olds 24th in math and 19th in science among the 29 OECD nations.</td>
<td><strong>SUPPORT POINT 2-2</strong> More and more leaders in sciences, business, and education tie the United States’ abilities to innovate and compete in the global economy to the public schools’ ability to educate all students in STEM.</td>
<td><strong>SUPPORT POINT 3-2</strong> The future of our economy depends on cutting edge, innovative workers with high-end <strong>STEM</strong> knowledge and skills.</td>
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<td><strong>SUPPORT POINT 1-3</strong> Studying STEM will better prepare high school students for work. Industry surveys demonstrate that many 21st century careers will require an understanding of math, science, technology, and engineering and the problem-solving, critical thinking and adaptive skills gained through STEM.</td>
<td><strong>SUPPORT POINT 2-3</strong> <strong>STEM</strong> education ensures all students are equipped with the knowledge and skills to succeed in college and career. Rigorous and relevant <strong>STEM</strong> courses encourage greater student involvement in the learning process, equipping students for future education and work.</td>
<td><strong>SUPPORT POINT 3-3</strong> If we as a nation and as states are to continue to compete in the global economy, we need to “out innovate” the competition. <strong>STEM</strong> education is a key building block to that innovation process.</td>
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For a complete listing of the titles in this package visit CapstoneClassroom.com and type the ISBN into the search field.
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CLASSROOM COLLECTION
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TECHNOLOGY- 8 TITLES

PHYSICAL SCIENCE- 19 TITLES

EARTH AND SPACE SCIENCE- 9 TITLES

MATHEMATICS- 4 TITLES

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Grade 4

STEM Grade 4

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ENGINEERING- 3 TITLES

LIFE SCIENCE- 5 TITLES

PHYSICAL SCIENCE- 4 TITLES

EARTH AND SPACE SCIENCE- 6 TITLES

MATHEMATICS- 6 TITLES

SCIENTIFIC METHOD- 2 TITLES

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- Volcanologist

EARTH AND SPACE SCIENCE- 9 TITLES
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- Protecting Earth’s Water Resources
- Meteor

ENGINEERING- 5 TITLES
- Saving Energy
- Experiments with Light
- Electrical Experiments

LIFE SCIENCE- 12 TITLES
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- Mental Development
- The Web of Life

TECHNOLOGY- 2 TITLES
- Telegraph

PHYSICAL SCIENCE- 6 TITLES
- Grade Oil
- Falling Water

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STEM GRADES 7/8

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MATHEMATICS- 4 TITLES

LIFE SCIENCE- 12 TITLES

TECHNOLOGY- 7 TITLES

EARTH AND SPACE SCIENCE- 16 TITLES

PHYSICAL SCIENCE- 1 TITLES

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