Elementary STEM Opportunities

- Content Literacy Maps
- Science Kits
- Lab Classrooms
- Technology Integration
- Inquiry-Based Instruction, Problem-Based Learning, Action Projects
- Collaborative Groups
- Clubs
- District Science Fair
- Star Lab, Omni Globe
- Hour of Code
- Design Thinking

Secondary STEM Opportunities

- Highlights: Agriculture, Manufacturing, Engineer Your World, Problem-Based Learning, Project Lead the Way, Geometry in Construction, AMPED Manufacturing
- Clubs: Destination Imagination, Coding, Robotics, Greenhouse, MESA, RC Foam Fighters
- Building Community Partners
- Literacy Design Collaborative (LDC)

For more information about enrolling your child, please contact:

District Science TOSA
Big Thompson Elementary School
Laurene Edmondson Elementary School
Ivy Stockwell Elementary School
Turner Middle School
Walt Clark Middle School
Berthoud High School

Thompson School District’s STEM Program

Participating Schools

Big Thompson Elementary School
Laurene Edmondson Elementary School
Ivy Stockwell Elementary School
Turner Middle School
Walt Clark Middle School
Berthoud High School
How STEM can prepare students for lifelong problem solving:

“STEM education is an interdisciplinary approach to learning that removes the traditional barriers separating the four disciplines of science, technology, engineering, and mathematics and integrates them into real-world, rigorous learning experiences for students.”


“65% of today’s grade school kids will end up at jobs that haven’t been invented yet.”

United States Department of Labor: Futurework - Trends and Challenges for 21st Century

“Employment in occupations related to STEM is projected to grow to more than 9 million between 2012 and 2022; that is about 13%.”


What does a STEM classroom look like?

1. Focus on integrating science, technology, engineering, and math throughout a student’s day.
2. Focus on a real-world problem or engineering challenge.
4. Engage students in using an engineering design process that leads to developing a product or process to solve a challenge.
5. Emphasize teamwork, collaboration and communication.
6. Encourages students to be critical thinkers.

Design Cycle Objectives

Investigate
Students identify the problem to be solved, develop the design brief and formulate a design specification

Design
Students design the product and solution

Plan
Students plan the product and solution

Create
Students use appropriate techniques and equipment, follow the plan and create the product and solution

Evaluate
Students evaluate the product and solution and their use of the design cycle

STEM students can...

Ask questions and define problems
Plan and carry out investigations
Use mathematics and computational thinking
Engage in an argument from evidence
Develop and use models
Analyze and interpret data
Construct explanations and design solutions
Obtain, evaluate and communicate information