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HILLCREST STEM PROGRAM



Established in the 2023-2024 school
year



PROGRAM GOALS

- To deliver the Alberta Programs of Study through the focus of Science, Mathematics, Engineering and Technology with an emphasis on student-centered learning.
- To foster authentic hands-on learning experiences that enable students to research, tackle, and solve real-world problems in innovative ways.
- To prepare students to be engaged citizens, and to take on leadership roles in a world that demands a high level of knowledge, skills and innovation in technology.
- To provide collaborative learning opportunities with post-secondary institutions, business and industry.

KEY COMPETENCIES

Through STEM, students use and develop key competencies including:

- Critical Thinking
- Communication
- Problem Solving
- Collaboration
- Managing Information
- Cultural and Global Citizenship
- Creativity and Innovation
- Personal Growth and Well-Being

ABOUT STEM

OUR STUDENTS

STEM is about preparing our students for the 21st century. Students are engaged in learning that facilitates the development of the following learner traits:

- self-motivation
- risk-taking
- creativity
- resilience
- persistence
- problem solving

THE APPROACH

STEM is a cross-curricular approach that fosters collaboration, creativity and innovation in all students. It is hands-on, mind-on, and feeds natural student curiosity when they are most ready to learn. STEM utilizes the following instructional approaches:

- Design thinking
- Project-Based
- Inquiry-Based