STEM Collegiate Education Plan 2026–2029

May, 2026

ACCOUNTABILITY STATEMENT

Under the direction of the Board of Directors, the Education Plan for STEM Collegiate commencing June 1, 2026, was prepared under the direction of the Board of Directors in accordance with the responsibilities under the Education Act and the Sustainable Fiscal Planning and Reporting Act. This plan was developed in the context of the provincial government's business and fiscal plans.

The Charter Board has used its performance results to develop the plan and is committed to implementing the strategies contained within the plan to improve student learning and results. The Charter Board reviewed and approved the **2026/2029 Education Plan on May 20, 2026.**

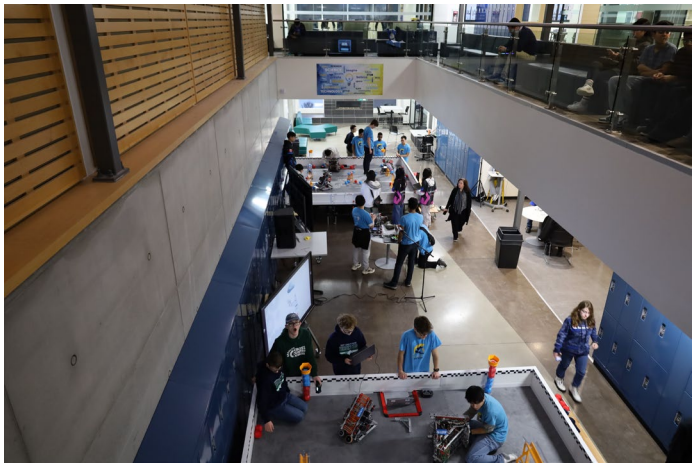
Lara McClelland
Board Chair
(original signed)

OUR VISION

We will be recognized as the premier center of 7-12 innovation in the areas of STEM education and STEM curriculum development in Edmonton, Alberta. Students will be knowledgeable leaders, global thinkers, and innovative risk takers who are inspired to solve key challenges in a rapidly changing world.

OUR MISSION

Our school exists to prepare students to be life-long learners, effective global communicators, creative problem solvers, and tomorrow's industry leaders. Students will reach their maximum potential through innovative learning opportunities and an intellectually nurturing
environment that emphasizes STEM knowledge and skill.
Students, teachers, and parents work together to demonstrate a commitment to actively serving the community in which we operate, while demonstrating resilience, good judgment, and an understanding and respect of diverse viewpoints.



INSIGHTS FROM THE RESULTS ANALYSIS

CHARTER GOALS

Goal 1: *Students will graduate with superior STEM knowledge, skills, and competencies that provide a strong foundation for lifelong learning in a fast-paced global environment.*

- STEM Collegiate academic results remain high. However, a drop in our English Language Arts scores suggest we need to reexamine our assessment and instructional approaches in this area.

Goal 2: *Students will have core STEM knowledge and skills needed to become global innovators and problem solvers.*

- Parent and student survey data showing strong agreements that we are achieving this goal suggests that we maintain our current strategies.

Goal 3: *Students will be community-minded learners who demonstrate courage, resilience, respect, and caring for others.*

- Parent and survey data shows strong agreement that students are building resilience.
- The results also suggest that students are showing higher levels of respect and that continuing to address should continue.

Goal 4: *Students will have the opportunity to connect with post-secondary institutions and industry to provide strong pathways into both from high school.*

- The strategies in place produced positive results and should be continued.

ALBERTA EDUCATION DOMAINS

Domain: *Student Growth and Achievement*

- STEM Collegiate academic results remain high. However, a drop in our English Language Arts scores suggest we need to reexamine our assessment and instructional approaches in this area.
- Based on the results, attention to students demonstrating positive active citizenship should continue.
- The key insight from this data is that teachers need to become more aware of the learning happening across disciplines as many teachers responded with "I Don't Know" to the measures.
- Results indicate the need for increased attention to literacy.

Domain: *Teaching and Leading*

- The positive results with this domain suggest that our current strategies and approaches are effective and should be maintained.
- Professional development activities appear to be meeting teachers' needs and the processes in place should continue
- Stakeholder (student and parents) survey results demonstrate a need for increased communication in the area of assessment.

Domain: *Learning Supports*

- While there are improvements from the previous year, data shows that continued attention to maintaining a welcoming, caring, respectful and safe learning environment is needed.
- The data also suggests continued development and communication of our continuum of supports.

Domain: *Governance*

- The results indicate satisfaction with parental involvement about the student's education, but more engagement with decisions about the school is neede

STAKEHOLDER ENGAGEMENT

STEM Collegiate engages its three key stakeholders - students, teachers, and parents - through surveys, formal meetings, and informal meetings.

There are two key surveys that provide us with stakeholder data: the Alberta Education and Childcare Assurance (AECA) Survey and our school survey which focused on our charter goals and provided open-ended questions for sharing thoughts for improvement.

On May 12, 2026, School Council was presented a draft of the education plan and advice on its development was received.

These stakeholder sessions helped inform this education plan in several ways including the inclusion of the following strategies this education plan by:

- Increasing communication in the area of assessment.
- increasing attention to literacy including access to reading material, and
- balancing university-focused messaging with broader STEM pathways by including, college and polytechnic programs, apprenticeships,
- appropriately addressing student misbehaviour, and
- providing more collaboration time on PD days (teachers).

The above strategies are located as strategies throughout this education plan.

STRATEGIC PRIORITIES

STRATEGIC PRIORITY 1

STEM FOCUSED CURRICULUM DEVELOPMENT AND ENHANCEMENT

A key element that helps define our school as a center of excellence for STEM Education is its option course programming and curriculum enhancements, a key feature of our school.

Our current option programming is developed locally through collaboration with our sister school STEM Innovation Academy. A challenge we face is that many of the current STEM-related high school CTS options have not kept pace with the rapid technological advancements in these fields. This issue does not affect Junior High CTF courses.

To provide students with cutting-edge, future-oriented learning experiences, we must continuously adapt and enhance our programs. By doing so, we equip students with the skills and knowledge needed to thrive in an ever-changing STEM landscape.

STRATEGIC PRIORITY 2

BUILDING PATHWAYS AND PARTNERSHIPS

As a collegiate, we are required to offer specialized programming in a defined subject area or field. We also support students in developing clear career pathways that lead to post-secondary education and meaningful future opportunities related to that field.

Creating these career-focused experiences and pathways requires strong partnerships with both post-secondary institutions and industry.

These partnerships not only help establish access to post-secondary and career pathways, but they also play a critical role in shaping and delivering innovative, relevant STEM programming.

Developing an innovative STEM program depends on expert insights and collaboration with industry leaders and post-secondary institutions. Strengthening these relationships remains a key priority as we work to create meaningful and sustainable pathways into STEM-related fields.

OUTCOMES AND MEASURES

CHARTER GOALS

CHARTER GOAL #1

Students will graduate with superior STEM knowledge, skills, and competencies that provide a strong foundation for lifelong learning in a fast-paced global Environment.

OUTCOME 1: Students will demonstrate excellence in the four core subjects of Science, Math, Social Studies, and English Language Arts.

STRATEGIES

Enhance instruction and assessment by aligning with the continuity of supports framework (Alberta Education) and the five levels of High Reliability Schools (Marzano), focusing on the following:

Strategy 1: Teacher training and use of effective research-based instructional strategies and approaches that increase student engagement, mastery, and transfer (application of learning to new contexts).

Strategy 2: Teacher training and teacher use of effective diagnostic, formative and summative assessment practices, including integrating the use of common blue printed summative (mid-term & final) assessments.

MEASURES

Measure 1: Percentage of students achieving the acceptable standard and standard of excellence in Math, Science, Social Studies and English Language Arts on the Provincial Achievement Tests.

Measure 2: Alberta Education Assurance Measure: Student Engagement (The percentage of teachers, parents and students who agree that students are engaged in their learning at school is interesting and useful).

OUTCOME 2: Literacy will become more visible across classrooms and the school.

STRATEGIES

Strategy 1: Explore feasibility of a resource hub.

Strategy 2: Increase the amount of reading material made available in classrooms.

Strategy 3: Integrate reading into other subjects besides English Language Arts.

Strategy 4: Use writing for thinking in other subjects besides English Language Arts.

Strategy 5: Promote in-class discussion using tier 2 language (academic language) and tier 3 language (subject specific language) across subjects.

MEASURES

Measure 1: Percentage of students achieving the acceptable standard and standard of excellence in reading and writing on the English Language Arts Provincial Achievement Test.

Measure 2: School Survey (Percent of students who agree they speak, read and write about course content in their classes).

CHARTER GOAL #2

Students will have core STEM knowledge and skills needed to become global innovators and problem solvers.

OUTCOME 1: Students will demonstrate creativity/innovation and problem solving.

STRATEGIES

Strategy 1: Introduce students to the ethical and strategic use of generative Artificial Intelligence (AI) models.

Strategy 2: Develop and implement unique option courses (CTF and CST) designed to develop foundational STEM skills, STEM competencies with the use of and application of emerging technologies.

Strategy 3: Facilitate student access to emerging technologies, STEM tools and applications in option and core subjects where applicable.

Strategy 4: Enroll students in a variety of STEM and other discipline related regional, national and international competitions.

Strategy 5: Integrate the design thinking problem solving process into STEM options and core courses where applicable.

MEASURES

Measure 1: School Survey (Teacher, Students, Parents) -Technology Use

Measure 2: School Survey (Teacher, Students, Parents) - Problem Solving

Measure 3: School Survey (Teacher, Students, Parents) - Innovation

CHARTER GOAL #3

Students will be community minded learners who demonstrate courage, resilience, respect, and caring for others.

OUTCOME 1: STEM Collegiate will be a place that is safe, caring, welcoming, respectful, and inclusive for students and staff.

STRATEGIES

Strategy 1: Students and staff will use research-based practices to develop and maintain a respectful environment, build positive relationships, and resolve conflicts.

Approaches that can be used include those identified by Alberta Education and Childcare

- Positive Behaviour Supports (PBS)
- Comprehensive School Health (CSH)
- Restorative Practices (Collaborative Problem Solving)

Strategy 2: Teachers will use effective classroom engagement strategies such as *Thinking Routines* to promote in-class interactions between students.

Strategy 3: Provide whole-school celebrations to celebrate diversity in our student population (e.g., school wide multicultural day, frequent opportunities for our diverse student population to showcase cultural celebrations from around the world).

Strategy 4: Design and implement regular school-wide community building activities (e.g. pep rallies, challenges, "house" system, etc.)

MEASURES

Measure 1: Alberta Education Assurance Measure: Welcome, Respectful, and Safe Learning Environment. (The percentage of teachers, parents and students who agree that their learning environments are welcoming, caring, respectful and safe.)

Measure 2: Alberta Education Assurance Measure: Citizenship (Percentage of teachers, parents and students who are satisfied that students model the characteristics of active citizenship.)

Measure 3: Alberta Education Assurance Measure: Agreement that: students are safe at school, are learning the importance of caring for others, are learning respect for others and are treated fairly in school.

Measure 4: School Survey (Teacher, Students, Parents) - Respect

OUTCOME 2: Students will demonstrate resilience in their learning.

STRATEGIES

Strategy 1: Teachers will cultivate a school culture where productive struggle is expected, supported, and celebrated as a vital part of learning by designing tasks that encourage risk-taking, reflection, and growth through challenge.

MEASURES

Measure 1: School Survey (Teacher, Students, Parents) - Resilience

CHARTER GOAL #4

Students will have the opportunity to connect with post-secondary institutions and industry to provide strong pathways into both from high school.

OUTCOME 1: Students will view STEM Collegiate as an important vehicle for informing pathways to their future STEM related careers.

STRATEGIES

Strategy 1: Coordinate off-campus site visits to support exploration of career paths and real-world environments in post-secondary institutions and industry.

Strategy 2: Coordinate with post-secondary institutions to provide in school information sessions.

Strategy 3: Establish relationships with post-secondary institutions and industry leaders to identify the knowledge, skills and competencies that can be integrated into STEM Collegiate's programming to support STEM Collegiate student success in their post-secondary STEM related pursuits.

Strategy 4: Balance university-focused messaging with broader STEM pathways by including college and polytechnic programs, apprenticeships.

MEASURES

Measure 1: Frequency of administration engagements with post-secondary and industry leaders and experts.

Measure 2: Frequency of student on or off-site engagements with post-secondary institutions and industry.

Measure 3: Student Survey: Career Aspirations

Measure 3: School Survey (Teacher, Students, Parents) - Post Secondary Preparedness

OUTCOME 2: Students will have access to a variety of pathways to STEM Related post-secondary education.

STRATEGIES

Strategy 1: Explore enrolling students in a variety of experiences that support their post-secondary aspirations such as

- Dual Credit
- Work Experience
- Apprenticeships

Strategy 2: Create option streams that align to post-secondary programs.

MEASURES

Measure 1: Percent of high school students enrolled in an option stream that aligns with a post-secondary program.

ALBERTA EDUCATION ASSURANCE DOMAINS

DOMAIN: Student Growth and Achievement

Student growth and achievement strategies and measures are combined with Charter Goal #1. and Goal #2

DOMAIN: Learning Supports

OUTCOME 1: Students will have appropriate supports and services at the school consistent with the principles of inclusive education.

STRATEGIES

Strategy 1: Implement and monitor the Continuum of Supports to ensure

- appropriate supports and resources are in place;
- fulfills the requirements in the *Standards for Special Education & Inclusive Education Policy (2019) & the Individualized Program Plan (IPP) Guide / Handbook*

Strategy 2: Create a vocational counseling position.

MEASURES

Measure 1: To demonstrate that the school is meeting this outcome, the school will provide a succinct description of the related processes and strategies and their impact.

Measure 2: Alberta Education Assurance Measure: Agreement that students have access to appropriate supports and services at school.

Measure 3: Alberta Education Assurance Measure: Agreement that programs for children at risk are easy to access and timely.

Measure 4: Alberta Education Assurance Measure: Satisfaction with the accessibility, effectiveness and efficiency of programs and services for students in their community.

DOMAIN: Teaching & Leading

OUTCOME 1: Teachers and leaders will grow in their professional practice to ensure excellence in teaching and continuous improvement in student learning.

STRATEGIES

Strategy 1: Teacher training and use of effective research-based instructional strategies and approaches that increase student engagement, mastery, and transfer (application of learning to new contexts).

Strategy 2: Teacher training and teacher use of effective diagnostic, formative and summative assessment practices, including integrating the use of common blue printed summative (mid-term & final) assessments.

Strategy 3: Engage with the Alberta Professional Learning Consortium (APLC) to provide teacher professional development opportunities.

Strategy 4: Ensure a professional development year plan is developed, which includes teacher collaboration time.

Strategy 5: Participate in the 2026 (Fall) and 2028 (Fall) Charter School Teacher Conference by presenting and attending.

Strategy 6:
Pilot new provincial curriculum that may include

- mathematics,
- social studies,
- physical education and wellness, and

career education and financial literacy.

MEASURES

Measure 1: Alberta Education Assurance Measure: Lifelong Learning: (The percentage of teachers reporting that in the past 3-5 years the professional development and in-servicing received from the school authority has been focused, systematic and contributed significantly to their ongoing professional growth).

Measure 2: NEW Staff Survey: How PD Met Needs

OUTCOME 2: Communication between the school and parents, and teachers and parents will improve.

STRATEGIES

Strategy 1 : Publish an assessment & grading guide for families.

Strategy 2: Set minimum expectations for teacher-family communication.

MEASURES

Measure 1: NEW: School Survey-Parent (Satisfaction that the school communicates its policies and procedures.)

Measure 2: NEW: School Survey-Parent (Satisfaction with classroom communication.)

DOMAIN: Governance

OUTCOME 1: STEM Collegiate will be recognized as a well-governed and effectively managed organization.

STRATEGIES

Strategy 1: Set policies and allocate resources to ensure the school is successful in meeting the mandates set out in its approved Charter.

Strategy 2: Continue to review existing administrative procedures and Board Policies to ensure relevance, and consistency, and that they are compliant with regulatory requirements and emerging issues.

Strategy 3: Continue to advocate with Alberta Education and Childcare and Alberta Infrastructure to secure a larger campus for STEM Collegiate to bring the Capital Plan to fruition and to support growth to meet increasing demand for student spaces.

Strategy 4: Implement and monitor a revised Board Work Plan that includes Professional Development opportunities for directors.

MEASURES

Measure 1: Alberta Education Assurance Measure: Parental Involvement (Percentage of teachers and parents satisfied with parental involvement in decisions about their child's education).

Measure 2: Alberta Education Assurance Measure: Agreement that their school has improved or stayed the same in the last three years.

Measure 3: A clean auditor's report.

Measure 4: Alberta Education Assurance Measures Overall Summary

DOMAIN: First Nations, Métis, and Inuit Student Success

Outcome 1: First Nations, Métis, and Inuit students will be academically successful.

STRATEGIES

Strategy 1: Monitor First Nations, Métis, and Inuit students academic progress and provide accommodations and support where necessary.

Strategy 2: Teachers will use tiered strategies (universal, targeted, individual) to support academic success as identified in our Continuum of Supports Framework.

MEASURES

Measure 1: First Nations, Métis, and Inuit student PAT scores.

Measure 2: First Nations, Métis, and Inuit student final grades.

Outcome 2: School staff will engage in activities that advance the Truth and Reconciliation Commission recommendations (Call to Action #63 – Building Student Capacity and Educator Training & Call to Action #57 – Public Servant Education).

STRATEGIES

Strategy 1: Make visible and available First Nations, Métis, and Inuit resources for staff and student use.

Strategy 2: Build student and staff capacity for intercultural understanding, empathy, and mutual by recognizing Truth and Reconciliation Day and Indigenous Peoples' Day with school wide Indigenous related activities and integrating indigenous ways of knowing in coursework where applicable.

Strategy 3: Provide informational items at staff meetings to increase staff knowledge and awareness.

MEASURES

Measure 1: Log of professional learning opportunities (i.e. info shared with staff; cultural learning segment at a staff meeting, etc.)

DOMAIN: Stakeholder & Community Engagement

Outcome 1: STEM Collegiate will engage school stakeholders and the community.

STRATEGIES

Strategy 1: Introduce open-ended questions on the school survey that allow stakeholders to elaborate on areas the school is doing well and areas for improvement.

Strategy 2: Continue to collaborate with School Council to find ways to increase communication and meeting accessibility for all parents.

Strategy 3: Introduce annual student engagement sessions with school administration to allow for student voice.

Strategy 4: Continue sharing our innovative practices and learning outcomes with others in the educational community.

Strategy 5: Continue to reach out beyond school walls to demonstrate broad and sustained levels of community engagement.

MEASURES

Measure 1: Documentation of efforts to share innovative practices and learning outcomes with others in the educational community.

Measure 2: Documentation of efforts to share innovative practices and learning outcomes with others in the educational community.

Other Elements

Budget

- STEM Collegiate's approved Budget for 2026-2027 is available at: https://stemcollegiate.ca/wp-content/uploads/2026/06/FY27-Collegiate-Budget-EXTERNAL-BOARD-APPROVED.pdf

Capital Plan

- STEM Collegiate's Three-Year Capital Plan is available at: https://stemcollegiate.ca/wp-content/uploads/2025/04/STEM-Collegiate-2026-2029-Three-Year-Capital-Plan.pdf

Communication Plan

- Parents will be made aware of this plan via email indicating that this Education Plan is available on the school's website: Documents and Publications - STEM Collegiate

Implementation Plan

- An implementation/monitoring plan for the 2026-2029 Education Plan is located in Appendix I.

Appendix 1

Monitoring and Implementation Plan