



# K-12 STEM Strategy



Every student. Every school. Every day.

## Mission

To introduce STEM – a trans-disciplinary approach to inquiry and problem-based learning – across the TDSB to foster collaboration, creativity and innovation to prepare students to participate in a rapidly changing, technological and interconnected world.

## TDSB’s Vision

- Providing STEM education for all students.
- Moving away from teaching subjects in silos and linking real world issues to classroom teaching and learning.
- Promoting problem-based learning and STEM skills to allow students to stay current, explore, inquire and actively engage in relevant issues of the world around them.
- Encouraging scientific discovery and technological innovation to shape how future citizens work collaboratively to provide creative and viable solutions to today’s and tomorrow’s real-life problems.

## TDSB’s Commitments

Investing in STEM Instructional Leadership	Providing Purposeful and Targeted STEM Resources	Supporting Student Choice	Building Strong and Effective Community Partnerships
<ul style="list-style-type: none"> <li>• Add 10 STEM learning coaches to support targeted lead schools</li> <li>• Develop foundational core in mathematics and science</li> <li>• Collaborate among different disciplines to deliver relevant STEM programming</li> </ul>	<ul style="list-style-type: none"> <li>• Provide STEM kits to pilot schools to facilitate planning, development and implementation of STEM programming</li> <li>• Provide interactive probeware and software to be used</li> <li>• Create STEM monographs to align connections with various disciplines</li> <li>• Support co-curricular robotics competition</li> </ul>	<ul style="list-style-type: none"> <li>• Encourage opportunities for students to collaborate, innovate and create</li> <li>• Engage students through relevant and contextualized problem-based learning</li> <li>• Support use of technology and engineering design for students to build prototypes of solutions</li> </ul>	<ul style="list-style-type: none"> <li>• Build STEM-related connections with post-secondary institutions</li> <li>• Offer career exploration in STEM related fields with mentorship and co-op opportunities with business and community partners</li> </ul>

