

We live in a society exquisitely dependent on science and technology, in which hardly anyone knows anything about science and technology.

Carl Sagan, Astronomer

What is a STEM Curriculum?

A STEM (science, technology, engineering, and mathematics) Curriculum integrates an interdisciplinary curricular approach in which rigorous academic concepts are coupled with real-world lessons. Students experience and apply science, technology, engineering, and mathematics to make connections between school, community, work, and the global enterprise, preparing them to successfully compete in an increasingly innovative world market.

Why does Durham Academy offer a STEM Curriculum?

A STEM-educated workforce is required not only for such specialities as biochemistry, engineering, and computer programming, but also for such larger industrial segments such as manufacturing, construction, and transportation.

How does Durham Academy offer an effective STEM Curriculum?

Effective curricular instruction identifies students' early interests and experiences, builds upon that foundation of knowledge, and motivates to engage and to sustain student interests and lifelong learning. Students explore fundamental questions involving the material and natural worlds, and gain practical experiences through activities such as scientific investigations and engineering design projects.

How does Durham Academy's STEM Curriculum differ from typical school curriculums?

Durham Academy teachers demonstrate specialized STEM curricular knowledge and practiced discipline expertise. As trained specialists, they teach to inspire all students and to deepen their understanding of science, technology, engineering, and mathematics through demanding and rigorous instruction. Durham Academy ensures that STEM curricular instructional time well exceeds that required by the Ministry of Education.