

Department Information

Coding & Technology Page

Spectrum Technology Program Philosophy

Spectrum Technology courses teach transferable workplace skills in applied learning contexts to provide opportunities to explore high-demand career options, and gives students the technology and skills needed for success in adult life.

From [Minnesota Department of Education CTE](#)

Spectrum Technology Program Goals

ISTE Standards

At Spectrum, we have adopted tech standards created by The International Society for Technology in Education. These standards provide a framework for rethinking education, adapting to a constantly changing technological landscape and preparing students to enter an increasingly global economy.

The roles and descriptions listed to the right drive the curriculum development of all of the tech courses at Spectrum Middle & High Schools. We believe all students should have the opportunity to learn the necessary skills to fulfil these important roles in our ever changing society.

1	Empowered Learner	Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.	VIEW INDICATORS +
2	Digital Citizen	Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical.	VIEW INDICATORS +
3	Knowledge Constructor	Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.	VIEW INDICATORS +
4	Innovative Designer	Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.	VIEW INDICATORS +
5	Computational Thinker	Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.	VIEW INDICATORS +
6	Creative Communicator	Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.	VIEW INDICATORS +
7	Global Collaborator	Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.	VIEW INDICATORS +