

Coding will help students be

Computational Thinkers

By breaking problems into component parts, extracting key information, and developing descriptive models to understand complex systems or facilitate problem-solving.

By understanding how automation works and using algorithmic thinking to develop a sequence of steps to create and test automated solutions.

Innovative Designers

By knowing and use a deliberate design process for generating ideas, testing theories, creating innovative artifacts or solving authentic problems.

By selecting and use digital tools to plan and manage a design process that considers design constraints and calculated risks.

By developing, testing and refining prototypes as part of a cyclical design process.

By exhibiting a tolerance for ambiguity, perseverance and the capacity to work with open-ended problems.

Digital Citizens

By engaging in positive, safe, legal and ethical behavior when using technology, including social interactions online or when using networked devices.

Knowledge Constructors

By building knowledge by actively exploring real-world issues and problems, developing ideas and theories and pursuing answers and solutions.

Global Collaborators

By contributing constructively to project teams, assuming various roles and responsibilities to work effectively toward a common goal.

Empowered Learners

By using technology to seek feedback that informs and improves their practice and to demonstrate their learning in a variety of ways.

Creative Communicators

By creating original works or responsibly repurpose or remix digital resources into new creations.

By publishing or presenting content that customizes the message and medium for their intended audiences.