

EXPLORING COMPUTER SCIENCE

Exploring Computer Science is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. The course focuses on the conceptual ideas of computing and helps students understand why certain tools or languages might be utilized to solve particular problems. The goal of Exploring Computer Science is to develop in students the computational thinking practices of algorithm development, problem solving, and programming within the context of problems that are relevant to the lives of today's students. Students will also be introduced to topics such as artificial intelligence, web development, programming, and physical computing.

- **Computer Science Practices:** Students will employ high-level skills and dispositions throughout the course.
- **Problem Solving with Computers:** Students will learn how computers input, output, store, and process information.
- **Web Development:** Students will learn social responsibility and ethics with regard to web development and how to use the basic building blocks of the World Wide Web.
- **Programming and Algorithms:** Students will understand that an algorithm is a sequence of steps designed to accomplish a specific task.

