

EXPLORING COMPUTER SCIENCE 1

Exploring Computer Science 1 is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. The goal of Exploring Computer Science 1 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 interface design, limits of computers and societal and ethical issues.

- Human and Computer Interaction: Learn the components and uses of a computer
- Problem Solving: Develop computational practices and understand the connections between problem solving, mathematics and computer science
- Introduction to Programming: Students are introduced to some basic programming scenarios associated with code design and development
- Computing and Data Analysis: Explore how computing has facilitated new methods of managing and interpreting data

