EXPLORATIONS LICENSE:
ESSENTIAL COMPUTER SCIENCE LITERACY

Drawing from Finland's highly successful approach to teaching computer science, this course blends unplugged learning with block-based programming, computational thinking and core digital citizenship principles so students can learn the essential introductory computer science knowledge they need to be successful and safe in today's changed world. Units include:

The Essentials of Coding

What Code Is
How Bugs Muck Things Up
How Code Works

Cyber Safety

How to Make a Password
The Rules of Digital Interaction
Safe Browsing
How to Report Suspicious Activity

Learning to Code

Block-Based Programming
Project Management
Abstraction

Digital Citizenship

Netiquette
Copyrights and Plagiarism
Cyberbullying

Hardware vs Software

Computer Components
Data Storage
Operating Systems

The Fundamentals of Algorithms

Sorting
Divide and Conquer
Searching

Core Logic

Loops
Sequencing
Selections

Career Exploration

Who Uses Code
What Uses Code
The History and Future of Coding

All Units...

⭐ Are aligned to ISTE standards

⭐ Utilize a 5E lesson plan design

⭐ Work within the timelines of a multi-disciplinary classroom

⭐ Develop a growth mindset

⭐ Provide cross-disciplinary lesson plans

⭐ Build skills students need to be successful in higher level coding courses

MASTERY CODING