

Big Ideas & Conceptual Thinking Practices

Covering the AP CSP Conceptual Framework

The CS Principles Conceptual Framework developed by the College Board outlines five “Big Ideas” of computing which are further subdivided into Enduring Understanding, Learning Objectives, and Essential Knowledge Statements. The framework further identifies six “Computational Thinking Practices,” containing skills that students should employ and develop. The curriculum is designed such that students investigate each of these big ideas while practicing the computational thinking practices.

Big Ideas

CRD: Creative Development
DAT: Data
AAP: Algorithms and Programming
CSN: Computing Systems and Networks
IOC: Impact of Computing

Conceptual Thinking Practices

CTP1: Computational Solution Design
CTP2: Algorithms and Program Development
CTP3: Abstraction in Program Development
CTP4: Code Analysis
CTP5: Computing Innovations
CTP6: Responsible Computing
