



ITS Computational Thinking Objectives

Foundational Concepts

- 1.1 Understand different types of data
- 1.2 Recognize and apply logical reasoning
- 1.3 Explain algorithmic thinking

Identify and Collect Data

- 2.1 Assess data needs
- 2.2 Understand data quality
- 2.3 Collect the data needed to solve a problem

Apply Abstraction

- 3.1 Identify patterns in and apply abstraction to data
- 3.2 Recognize, create and interpret abstract models

Specify a Solution

- 4.1 Define and decompose a problem
- 4.2 Identify requirements

Automate a Solution

- 5.1 Use a sequence of steps in algorithms
- 5.2 Automate repetitive tasks by using iteration
- 5.3 Use selection statements
- 5.4 Use variables

Present and Improve a Solution

- 6.1 Produce a computational artifact
- 6.2 Collaborate on artifacts
- 6.3 Perform iterative design

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