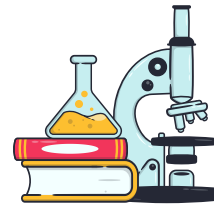


CS in Science

Quick Integration Ideas



Using Computer Science in Science helps students test, iterate, and analyze. They develop persistence, critical thinking, and confidence as problem-solvers.

ELEMENTARY [K-5]

INTEGRATION IDEAS



Data Collection and Representation

Students understand data as information we collect and can represent data in different ways (charts, graphs, or tables)

Example: Plant Growth & Weather Data



Sequencing Steps in Investigations

Students write or act out “algorithms”—ordered steps that describe how to complete an investigation or task.

Example: Coding a Science Procedure & Steps of a Water Cycle Game



Modeling Natural Patterns

Students create models to show how natural systems behave and repeat

Example: Butterfly Life Cycle Animation, Modeling Animal Migration

MIDDLE [6-8]

INTEGRATION IDEAS



Simulation and Modeling

Code simulations in Scratch (ecosystems, physics, etc.)



Data Analysis and Visualization

Analyze experimental data in spreadsheets



Using Conditionals for Variables in Experiments

Create sensor-based projects (micro:bit thermometer)

QUICK TIPS

- First, look for natural connections between your content and CS skills.
- Focus on thinking, not just technology.
- Start small! Try one integrated computer science activity per science unit.