

Understanding Systems

Educator supports students in using computational thinking and tools in order to develop their understanding that systems are composed of interrelated parts.

Key Method

The educator guides students in using computational thinking to better understand a system being studied.

Method Components

Systems Thinking

A system is a group of things which affect each other, such as plants and animals in a food web, parts of a machine, musical notes in a song, or images in a poem. Because systems often have relationships between many different parts, they are hard to think about intuitively and their behavior can be hard to predict without the use of computational tools. Small changes in specific parts of a system can have surprising effects through the whole system.

Some of the properties commonly observed and studied in systems include:

- Feedback
- Emergent behavior
- Interrelated systems and subsystems
- Change over time

Understanding systems and systems thinking can offer rich new ways of answering questions in every discipline. For example:

- How do patterns of imagery interact to create meaning in a poem?
- Why are families so different from each other? Who can control how a family works?
- How do goods in a market get their prices?
- How can we use equations to express relationships between many different values?
- What happens when one species is removed from an ecosystem?

Computational thinking

Computational thinking and computational tools are well-suited for examining systems and the relationships between the components within systems.

While studying a system, it can be helpful for students to **decompose** (see "Collecting and Analyzing Data" for more detail about this cross-cutting concept), or break down, a system into its smaller parts for closer study. For example, if a student were studying a bicycle system, they might observe the system and then list all of the parts that make up the larger system, such as the tire and the chain.

Another cross-cutting concept that can help students better understand systems thinking is **abstraction**. Abstraction

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Reviewing **Td 3 F Wndskills Work Module 4 Understanding Systems**: Unlocking the Spellbinding Force of Linguistics

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