

COMPUTATIONAL THINKING

What is computational thinking?



Computational thinking is an approach to solving problems in a way that can be implemented with or without a computing device to process and analyze data and to create real and virtual artifacts.

ABSTRACTION

My bank is on Main St. I need to go to the ATM to get cash. I put my card into the ATM. I type in my pin. I choose the amount that I want. Money comes out.

DECOMPOSITION

I need to write a biography for a famous person. What do I need to do to complete the project?

ALGORITHMIC THINKING

How can I map out a way to solve complex problems so that others can follow my work?

SEQUENCING & DEBUGGING

I'm making brownies for a friend. I follow a recipe that my grandma gave me, but the brownies came out dry and salty. What did I do wrong?

PATTERN RECOGNITION

I am new to my neighborhood and nobody has told me when trash gets picked up. What can I do to figure out when to put out my trash?