

It is a way of thinking
It is making the impossible possible
It is creating solutions to problems in everyday life

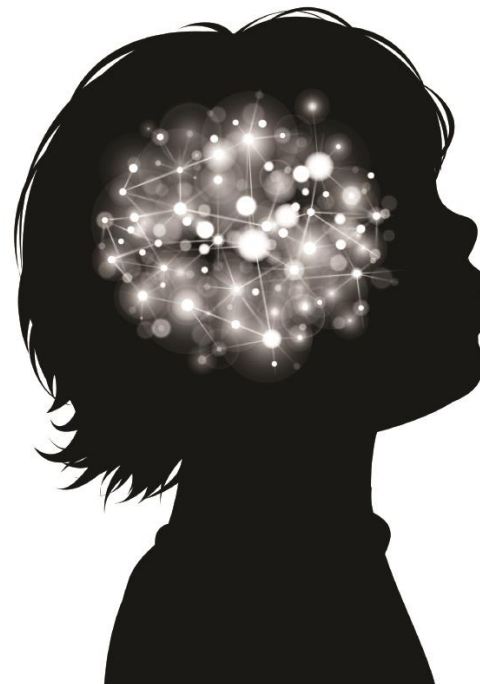
It is not thinking like a computer
It is not always using a computer as the solution
It is not limiting creativity

Attitudes

Skills

The Computational Thinker:

Attitudes and Skills



Problem solving
Designing solutions
Understanding behaviour

Making mistakes

I can enjoy things that go wrong and learn from them.
I see mistakes as a normal part of solving problems.

Perseverance

I don't give up. I'm prepared to keep having a go to see what happens.
I keep going, even when things seem confusing.
I'm determined to find solutions

Imagination

I can look at things in unusual ways.
I'm ready to consider the impossible.
Sometimes I leave a problem for a while. A solution might come to me when I'm thinking about something else.

Collaboration

I can use other people's ideas.
I can share my ideas.
We can talk together to solve a problem.
I can teach my peers and they can teach me.

Pattern recognition

Is this similar to a problem I've already solved? How is it different?
Which parts of the problem are the same?
Which parts of the problem are different?

Decomposition

Can I explain the different parts of this problem and solution?
How are the parts of the problem connected?

Algorithm design

What do I need to think about to make this happen?
What are the steps I will need to do to solve this problem?

Abstraction and generalisation

Which is the information I actually need?
What don't I need to know?
Have I made this more complicated than I need to?
Will this work for other things?

