

# Definitions of Computational Thinking

A catalyst for growth and extension of Computational Thinking in the classroom.

## What is Computational Thinking?

Computational Thinking is a set of skills that underpin learning within the Digital Technologies classroom. These skills allow students to engage with processes, techniques and digital systems to create improved solutions to address specific problems, opportunities or needs.

## The six Computational Thinking skills:



### DECOMPOSITION

Breaking down data, processes, or problems into smaller, manageable parts.



### PATTERN RECOGNITION

Observing patterns, trends, and regularities to make sense of data.



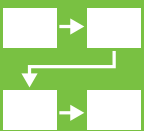
### ABSTRACTION

Identifying and extracting relevant information.  
The process of ignoring or removing unnecessary information.



### MODELLING AND SIMULATION

Developing a model to imitate processes and problems.



### ALGORITHMS

Creating an ordered series of instructions for solving similar problems or for doing a task.



### EVALUATION

Determining the effectiveness of a solution and generalising.  
Applying that information to new problems.