Machine generated alternative text:
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. 
Computational Thinking uses a number of skills, including: Machine generated alternative text:
DECOMPOSITION 
Breaking down problems into smaller, easier parts. 
PATTERN RECOGNITION 
Using patterns in information to solve problems. 
ABSTRACTION 
Finding information that is useful and taking away any information 
that is unhelpful. 
MODELLING AND SIMULATION 
Trying out different solutions or tracing the path of information to 
solve problems. 
ALGORITHMS 
Creating a set of instructions for solving a problem or completing 
a task 
EVALUATION 
Assessing a solution to a problem and using that information again 
on new problems. 

**Pattern Recognition**

This Challenge has questions that use pattern recognition as a key skill for solving the problem.

For example:

Machine generated alternative text:
Infinite Ice Cream 
oaaa 
There are two ice cream sellers. 
They use the same four flavours: 
The first seller uses the following instructions to make ice cream: 
1. Start with an empty cone. 
2. Pick a flavour at random, and add two scoops of that flavour. 
3. Add one scoop of any different flavour. 
4. If the requested height is reached, stop, otherwise go to Step 2. 
The second ice cream seller does not follow any instructions. 
Question 
You can only see the 
first few scoops of the 
ice cream cones. 
Which one is certainly 
from the second seller? **Solution:** Machine generated alternative text:
Answer 
Ice cream 4 
Computational Thinking: 
Algorithms 
This question 
comes from 
Ireland 
Explanation 
There is only one cone that clearly does not follow the 
instructions as the third scoop flavour repeats twice, instead 
of three times or once, which would meet the requirements. 