

What should I already know?

- Predict what will happen in an algorithm using logical reasoning.
- Investigate the way algorithms need precise, unambiguous instructions to work.
- Make algorithms that solve a problem, using simple drawings or diagrams to plan the solution.
- Improve algorithms, using debugging skills such as checking back through their plan and algorithm.

Computing Skills:

- To predict what will happen for a more complex sequence of instructions which uses repetition.
- To investigate how a problem can be solved by decomposing it into smaller steps and by planning a solution

Key Vocabulary and Definitions:

Algorithm	A process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer.
Debugging	The process of identifying and removing errors from computer hardware or software.
Drawings & Diagrams	Made by hand using a medium like pencils.
Editing	Revisiting our work and looking for marvelous mistakes.
Instructions	A direction or order.
Logic	It's a bit like reasoning.
Reasoning	The action of thinking about something in a logical, sensible way.
Precise	The quality, condition, or fact of being exact and accurate.
Predict	To say or estimate what will happen in the future or will be a consequence of something.
Problem Solving	The process of finding solutions to difficult or complex issues.

Teaching Sequence

Computer Science

1. To understand what a flowchart is and how flowcharts are used in computer programming.
2. To be able to select the right type of timer for a purpose.
3. To understand how to use the repeat command.
4. To understand the importance of nesting.
5. To design and create an interactive scene (2 lessons)

Online Safety: Online Bullying

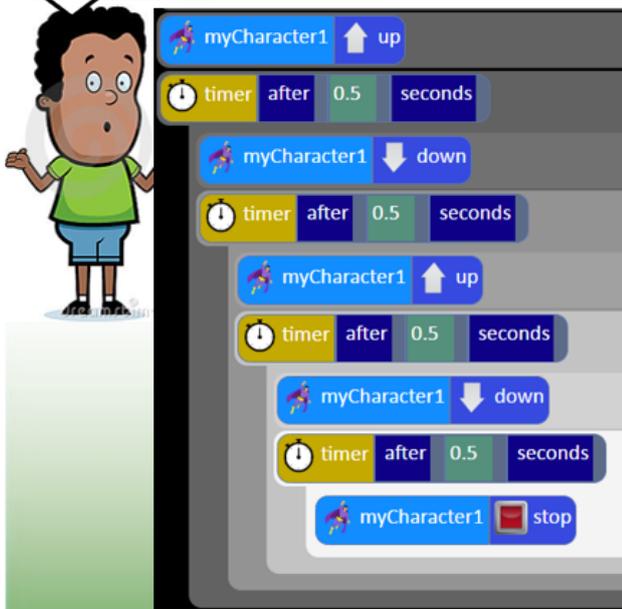
1. To describe appropriate ways to behave towards other people online.
2. To understand why it is important to behave appropriately online.
3. To give examples of how bullying behaviour could appear online.
4. To understand the smart rules with a focus on T(tell) (2 lessons)

Concept Cartoon:

Year 3 Cartoon to assess learning in Computer Science (Term 2)



I've made an algorithm.



What is an algorithm?

Look at the algorithm. Can you predict what might happen?

Standard Met?

Yes/no