

### What should I already know?

- Plan programs to achieve a specific goal, including controlling or simulating of physical systems
- Make programs using more complex algorithms
- Investigate how algorithms work on different platforms.
- Improve code by systematically testing and debugging it.

### Computing Skills:

- Plan programs to achieve a specific goal by choosing an efficient method of planning – storyboarding, flow diagrams.
- Make algorithms which find solutions to problems that use logical reasoning, sequences, selection (if, then, else), repetition, variables and a range of inputs and outputs.
- Investigate algorithms, systematically testing and debugging errors with an understanding of logic and syntax bugs

### Key Vocabulary and Definitions:

action	Commands that run on an object
algorithm	A precise step by step set on instructions
command	A single instruction in a computer program
debug	Looking for any problems in the code, fixing and testing them
flowchart	A diagram which represents an algorithm
If/Else	A conditional command. If the command is true, then the commands will be run.
repeat	A command used to make a block of commands run a set number of times.
timer	A command to run a block of commands after a times delay
variable	A named area in computer memory. A variable has a name and value. The program can change this variable value.

### Teaching Sequence

#### Computer Science Aims:

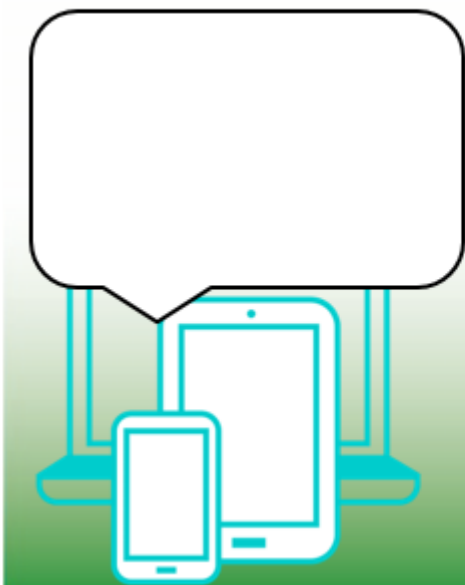
1. To design and make a program which includes a timer and a score
2. To create a program that uses multiple functions
3. To follow flowcharts to create and debug code.
4. To create a program that takes text input from the user
5. To design and create a text-based adventure game.

#### Online Safety Aims:

1. I can describe how to capture bullying content as evidence (e.g screen-grab, URL, profile) to share, with others who can help me.
2. I can explain how someone would report online bullying in different contexts
3. To describe how and why people should keep their software and apps up to date
4. To describe simple ways to increase privacy on apps and services that provide privacy settings.
5. To describe ways in which some online content targets people to gain money or information illegally
6. To know that online services have terms and conditions that govern their use

### Key Knowledge

Online Safety



What advise would you give?

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Standard Met?  
Yes/no

Computer Science

How would you can I debug a program?




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Yes/no