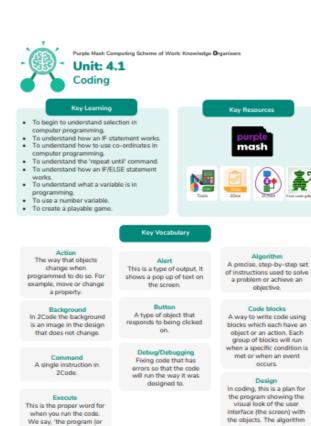
# Year 4 Summer 2 Knowledge Organiser – Computing Unit 1: Coding Revisit





An occurrence that causes a block of code to be run. The event could be the result of user action such as the user pressing a key (when Key) or clicking or swiping the screen (when Clicked, when Swiped). In 2Code, the event commands are used to Flowchart
A diagram that uses
specifically shaped, labelled
boxes and arrows to
represent an algorithm as a
diagram.

### 'If/Else' Statement A conditional command. This tests a statement. If the condition is true, then the commands inside the 'if

block' will be run. If the condition is not met, then the commands inside the 'else block' are run.

Object
Items in a program that can
be given instructions to
move or change in some
way jaction). In 2Code
Gibbon, these include
character, turtle, button,
vehicle, animal, food,
shape, number, input and
label.

Use your understanding of a situation to say what will happen in the future or will be a consequence of something.

A computer uses an IF statement to decide which bit of code to run. IF a condition is true, then the commands inside the block will be run.

Input
Information going into the
computer. This could be the
user moving or clicking the
mouse, or the user entering
characters on the keyboard. On tablets there are other forms such as finger swipes, touch gestures and tilting the device.

A question or request asked in coding to obtain information from the user in order to select which code to run.

This command can be used to make a block of commands run a set number of times or forever.

Clicking the Play button to make the computer respond to the code.

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commands are used to create blocks of code that

are run when events happen.

When coding commands are put inside other commands. These commands only run when the outer command runs.

When a design is turned

into a program using coding.

In 2Code this command will repeat a block of commands until a condition is met.

Simple



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This is the proper word for when you run the code. We say, 'the program (or code) executes.'

In coding, use a timer command to run a block of commands after a timed lelay or at regular intervals.

Sequence This is when a computer program runs commands in order. program will cho hich bit of code t

Variable
A named area in computer momory. A variable has a name and a value. The program can change this variable value. Variables are used in programming to keep track of things that can change while a program is running.

can be represented as part of the design, showing actions and events.

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## Key Questions

- This is a process to go through as you create a program using coding 

  Design create a design which could be 
  a flowchart, a labelled diagram or a 
  storyboard. This helps to think through 
  the algorithms required 
  Code: code the algorithms using to 
  code and adapting the design. 
  Test and Debug see if the program 
  works and fix any errors.

The variable could be set either to 0 or 1 and this could be changed by user action or a timer. If less statement outcomes could depend upon the value of the variable, command for selection.

The code will contain commands that require a decision and the next code to run will depend upon the outcome of this decision. In 2Code we used the 'If' command for selection.

The different objects have different properties. This makes then suitable for different type of programs.

- Buttons can only be clicked and have their colour and text changed.
   Vehicles have speed and angle.
   Characters have movement in 4
- directions.

   Turtles have rotation, pen up and