

PURPLE MASH COMPUTING SCHEME OF WORK - KNOWLEDGE ORGANISER



Key Learning

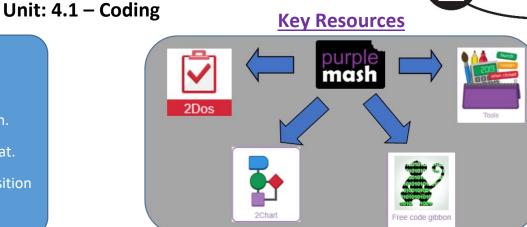
To use selection in coding with the 'if/else' command.

To understand and use variables in 2Code.

To use flowcharts for design of algorithms including selection.

To use the 'repeat until' with variables to determine the repeat.

To learn about and use computational thinking terms decomposition and abstraction.



Key Vocabulary

<u>Action</u> - Types of commands, which are run on an object. They could be used to move an object or change a property.

<u>Alert</u> - This is a type of output. It shows a pop-up of text on the screen. <u>Algorithm</u> - a precise step by step set of instructions used to solve a problem or achieve an objective. Flowchart

<u>Bug</u> - A problem in a computer program that stops it working the way it was designed.

<u>Code Design</u> – Design what a program will look like and what it will do. <u>Command</u> - A single instruction in a computer program.

<u>**Control**</u> - These commands determine whether parts of the program will run, how often and sometimes, when.

Debug/Debugging - Looking for any problems in the code, fixing and testing them.

Design Mode - Used to create the look of a 2Code computer program when it is run.

<u>Event</u> – Something that causes a block of code to be run.

<u>**Get Input</u>** - This puts the text that a user types into the computer's temporary memory to be used to control the program flow.</u>

If - A conditional command. This tests a statement. If the condition is true, then the commands inside the block will be run.

If/Else - 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. Input - Information going into the computer. Can include moving or clicking the mouse, using the keyboard, swiping and tilting the device. Output - Information that comes out of the computer e.g. sound. Object - An element in a computer program that can be changed using actions or properties. In 2Code, buttons, characters and vehicles are types of objects.

<u>**Repeat</u>** - This command can be used to make a block of commands run a set number of times or forever.</u>

<u>Selection</u> - This is a conditional/decision command. When selection is used, a program will choose a different outcome depending on a condition.

<u>Simulation</u> - A model that represents a real or imaginary situation. <u>Timer</u> - Use this command to run a block of commands after a timed delay or at regular intervals.

Variable – A named area in computer memory. A variable has a name and a value. The program can change this variable value.



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Unit: 4.1 – Coding



