



Year 2

Computing

Unit 2.1 - Coding

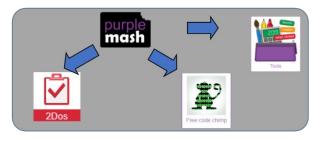
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To understand what an algorithm is.

- To design algorithms and then code them.
- To compare different object types.
- To use the repeat command.
- To use the timer command.

To know what debugging is and debug programs.

Key Images	3
Open, close or share a file.	
Save your work	
Watch the instruction video	?
Open design mode in 2Code	Design
Switch to code mode in 2Code	Exit design
A repeat code block	repeat 5 times
A timer code block	timer after 1 seconds
An object property	right

Key Resources



	Key Vocabulary
Action	Types of commands, which are run on an
	object. They could be used to move an object or
	change a property.
Algorithm	A precise step by step set of instructions used
-	to solve a problem or achieve an objective.
Bug	A problem in a computer program that stops it
•	working the way it was designed.
Character	A type of object in 2Code that can be
	programmed to change actions or properties.
Code Block	A group of commands that are joined together
	and are run when a specific condition is met or
	when an event occurs.
Code Design	Design what your program will look like and
	what it will do.
Command	A single instruction in a computer program.
Debug/	Looking for any problems in the code, fixing and
Debugging	testing them.
Design Mode	Used to create the look of a 2Code computer
	program when it is run.
Input	Information going into the computer. Can
	include moving or clicking the mouse, using the
	keyboard, swiping and tilting the device.
Object	An element in a computer program that can be
	changed using actions or properties.
Properties	All objects have properties that can be changed
	in design or by writing code e.g. image, colour
	and scale properties.
Repeat	This command can be used to make a block of
	commands run a set number of times or forever.
Scale	The size of an object in 2Code.
Timer	Use this command to run a block of commands
	after a timed delay or at regular intervals.
When	An event command. It makes code run when
clicked	you click on something (or press your finger on
	a touchscreen).
When Key	An event command. It makes code run when
	you press the specified key on the keyboard.

Key Questions

What is an algorithm? Why is it useful in coding?	An algorithm is a step-by-step set of instructions used to solve a problem or achieve an objective. A clear algorithm can help you to create code that does what it is supposed to do.	
Can you explain what the	A repeat command will repeat actions a specified number of times.	
repeat command and the	A timer will repeat every time the timer fires this could be every 4 seconds or	
timer command do?	after a certain number of seconds.	
If you are good at coding, you	All coders need to debug to make sure that their program works correctly, and	
don't need to debug. Is this	the code does what they intended. As you get better at coding, your programs	
true?	will get more complex and debugging gets even more important.	



PURPLE MASH COMPUTING SCHEME OF WORK

