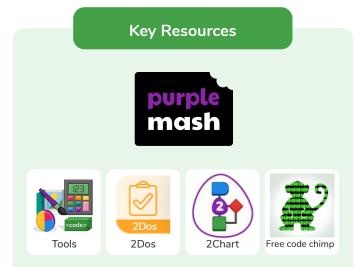


Purple Mash Computing Scheme of Work: Knowledge Organisers

Unit: 3.1 Coding

Key Learning

- To understand what a flowchart is and how flowcharts are used in computer programming.
- To understand that there are different types of timers and select the right type for purpose.
- To understand how to use the repeat command.
- To understand the importance of nesting.
- To design and create an interactive scene.



Key Vocabulary

Action

Types of commands, which are run on an object. They could be used to move an object or change a property.

Alert

This is a type of output. It shows a pop-up of text on the screen.

Algorithm

A precise step by step set of instructions used to solve a problem or achieve an objective.

Background

The part of the program design that shows behind everything else. It sets the scene for the story or game. Blocks of Command A series of a few code instructions.

Button

An object that can trigger an event in response to being clicked.

Collision Detection Detecting when two characters on the screen touch each other.

Command A single instruction in a computer program.

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

Develop

The process of designing programs and writing code.

Event

Something that causes a block of code to be run.

Execute To run a computer program.

Flowchart

A diagram which represents an algorithm.

Nesting

When you write a command inside something else e.g. a block of commands could be nested inside a timer.





Unit: 3.1 Coding

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.

Output

Information that comes out of the computer e.g. sound.

Plan

Set out what you would like the program to do before it is written.

Predict

Say what you think will happen when a piece of code is run.

Procedure

A set of coded instructions that perform a certain task.

Key Vocabulary

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.

Sequence

when a computer program runs commands in order.

Scene

A visual aspect of a program.

Sound

This is a type of output command that makes a noise.

Test

When code is run to check that it works correctly.

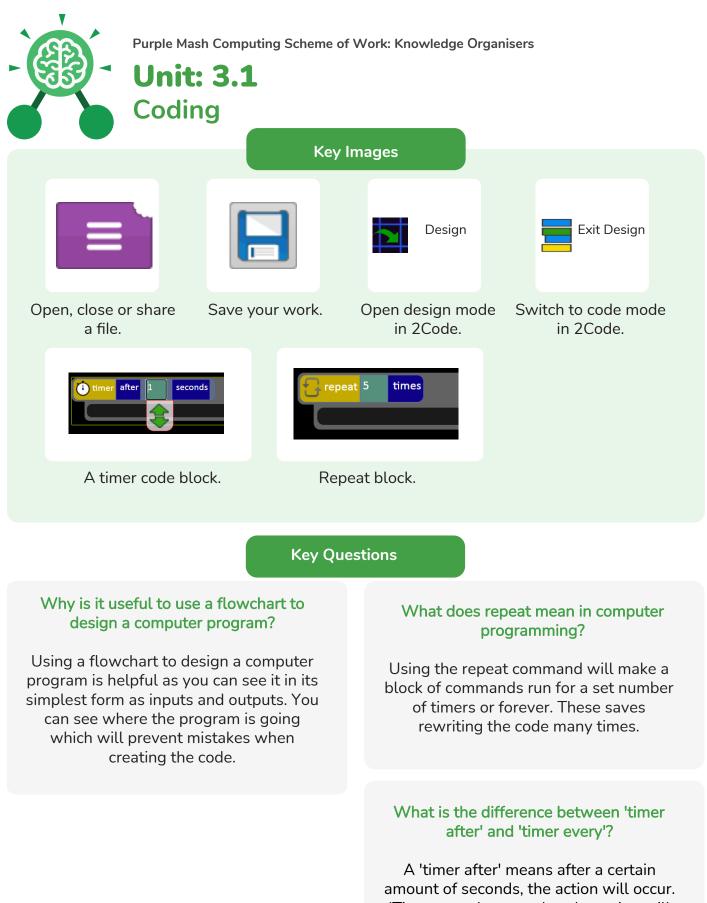
Timer

Use this command to run a block of commands after a timed delay or at regular intervals.

Values

Usually a number, a single character or a string of characters.





'Timer every' means that the action will re-occur every certain amount of seconds on a loop.

