

Preston Primary School Knowledge Organiser

Computing: How can I create a game using text-based programming language?

Term:
Summer 1

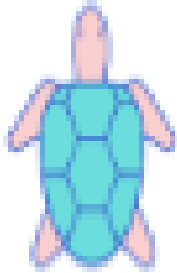
Year: Unit 3 - Year 3 & 4

Duration: 4 Weeks

Turtle Academy is where we will be exploring text-based programming languages.

Apple is the company that produces the iPads that we will be using during our computing sessions.

Scratch uses block-based programming.



This is an example of a text-based code found in Turtle Academy.

Type your code here...

Run

Commands history

forward 50
right 90
forward 25
left 180

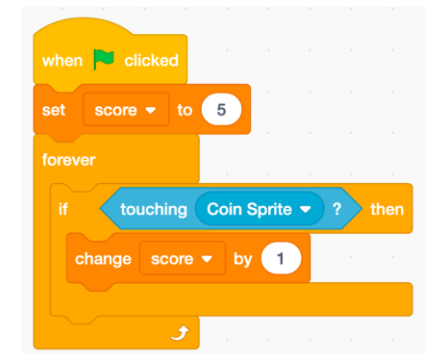


An iPad is a touch screen tablet computer produced by Apple.

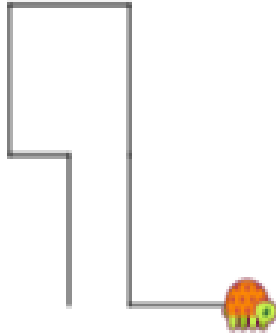


SCRATCH

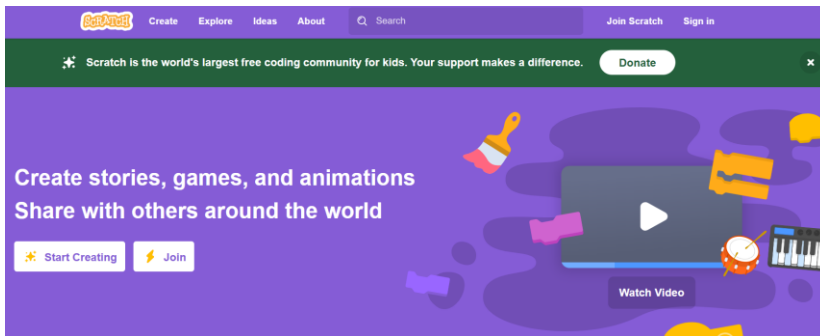
This is an example of block-coding, which is found in Scratch.



In Turtle Academy, you can create shapes and pictures using code.



In Scratch, you can create stories, games and animations.



Key Vocabulary

	Outcome	The result or output produced by a computer program or process after executing a set of instructions.
	Symbols	Characters or notations used in programming languages to represent operations, variables, constants, or other elements in code. Examples include +, -, =, and @.
	Repeated	The action of executing the same set of instructions multiple times within a program, often controlled by loops or recursion.
	Sequence	An ordered set of instructions or operations that are executed one after another in a specific order within a program.
	Infinite	Refers to a condition or loop that continues indefinitely without terminating, often due to a logical error or intentional design for continuous processes.
	Loop	A programming construct that repeats a block of code multiple times based on a specified condition. Common types include for, while, and do-while loops.
	Modify	The act of changing or altering code, data, or the behavior of a program to achieve a different outcome or to fix issues.
	Languages	Formal languages comprising a set of instructions that can be used to produce various kinds of output. Examples include Python, Java, C++, and JavaScript.