Coding - Year 2 Autumn 1 2024

Computing Knowledge Organiser



Key Learning

- To understand what an algorithm is.
- To create a computer program using an algorithm.
- To create a program using a given design.
- To understand the collision detection event.
- To understand that algorithms follow a
- To design an algorithm that follows a timed sequence.
- To understand that different objects have different properties.
- To understand what different events do in code.
- To understand the function of buttons in a
- To understand and debug simple programs.



Open, close or share a file.



Save your work.



Watch the instruction video.



Open design mode in 2Code.

What is an algorithm?

Why is it useful in

coding?

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.

Background

The part of the program design that shows behind everything else. It sets the scene for the story or game.

Object

An element in a

computer program that

can be changed using

actions or properties.

Predict

Say what you think will

happen when a piece of

code is run.

Properties

Key Vocabulary

Button An object on the screen which can be clicked on.

Collision Detection

Detecting when two characters on the screen touch each other.

Debug/Debugging

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

Run

To cause the instruction in

a program to be carried

The size of an object in

2Code.

Scene

A visual aspect of a

program.

Sequence

When a computer

program runs commands

in order.

Design Mode

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

Event

Something that causes a block of code to be run.

Key Pressed

Pushing down a key on the device's keyboard.

Nesting

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

Test

When code is run to check that it works correctly.

Text

Typed letters on the

Timer

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

When clicked/swiped

An event command. It makes code run when you click or swipe on something (or press/swipe your finger on a touchscreen).

Key Resources







Free code chimp









All objects have properties that can be changed in design or by writing code e.g. image, colour and scale properties.

Sound

This is a type of output command that makes a



Key Questions

Why is it important to know there are different object types?

If you are good at coding, you don't need to debug. Is this true?