

St George's Central CE Primary School and Nursery

Year 1/2 - Computing – How does a computer know what to do?

What will we learn:

- 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.

Prior Learning

In Reception I learnt how to:

- Log in with adult support with a simple username and password.
- Open an app to complete a task
- Log out safely

Future Learning in Year 3/4

To design algorithms using flowcharts.

To understand and use variables.

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

To deepen understanding of the different between timers and repeat commands.

Vocabulary

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.
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.
Properties	All objects have properties that can be changed in design or by writing code e.g. image, colour and scale properties.
Timer	Use this command to run a block of commands after a timed delay or at regular intervals.
When clicked	An event command. It makes code run when 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.
Algorithm	A precise step by step set of instructions used to solve a problem or achieve an objective.

Resources that are going to help me achieve my learning.



Fun Facts:

- All coders need to debug to make sure that their program works correctly, and the code does what they intended. As you get better at coding, your programs will get more complex and debugging gets even more important.
- Coding can be an extremely creative activity. If you know how to code, you can develop the aforementioned apps, video games, websites, and more!

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