

# Year 1 – Knowledge Organiser – Computing

## The Internet

The internet is made up of lots of computers connected across the world. The World Wide Web is part of the internet. Information is passed on through the internet and you can find this information by using technology that is connected to it. This is called 'being online'.



A collection of information can be put together on a website. Websites can be found by using a browser. A browser is like a big contents page in a book. It can list lots of webpages that you might be interested in. There are lots of different browsers. They may have a symbol on your computer that you can click on to see the list of websites.

## Types of devices online or offline?



These are all types of technological devices. Some connect to the internet and can be used online, some can not. Sometimes they can work both online and offline.

## Key Vocabulary

<b>Browser</b>	An online tool that helps you search the internet
<b>Trusted Adult</b>	A grown up that you know really well and trust (family/teacher)
<b>Debug</b>	Finding and correcting an error in a program so it works.
<b>Website</b>	A collection of information on the internet.
<b>Program</b>	A series of instructions.
<b>Internet</b>	Computers connected to each other across the world.
<b>Device</b>	A technological object made to do something
<b>Online / offline</b>	Connecting to the internet means you are 'online.' If something is not connected it is 'offline'.
<b>Personal information</b>	Information that tells someone exactly who you are, where you live or places you go to or visit.



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## Programming

Programming is a set of instructions that, when followed, makes something happen. Technological devices need a programs to make them work.

## Points to remember

You need to plan what you want the Beebot to do before you program it.

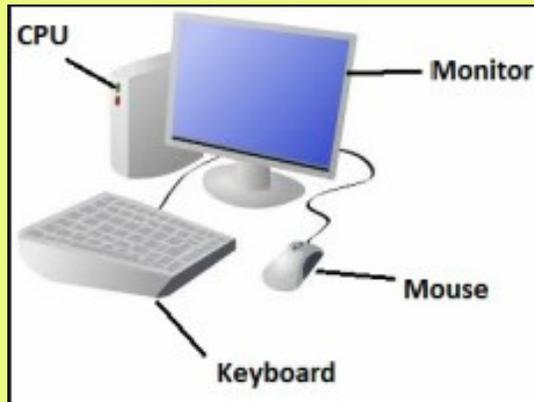
The instructions need to be in the correct order or sequence.

You need to put all the program in before pressing go and starting the program.

If it goes wrong and you want to start again, you must clear the program.

## Key parts of a computer .

Different devices may look different but many have the same parts and controls. Sometimes you can add extra parts to a device to improve what it can do.



Move forward

Turn left

Turn right

Start

Clear the program

Move backwards



A Beebot is a robot that can be programmed to move around. To program the Beebot, you have to use the buttons to tell it how to move. When you press 'Go' and the Beebot will follow your program (instructions).

## Debugging

If the Beebot moves in a different way than you planned it to, something has gone wrong with the program (Instructions) you gave it. This is when you have to find out what part of the instructions was wrong. This is called 'Debugging'.

## Keeping safe online

### Online rules

ALWAYS ask an adult you trust before going online.

If you see something that worries or upsets you ALWAYS tell an adult you trust.

NEVER share personal information.

The internet can be lots of fun and you can find out lots of amazing things. But people are connected to it all over the world. You need to make sure you follow some rules to keep yourself safe when you are having fun online.