2.1 Computing systems and networks – IT around us – Knowledge Organiser

Key prior learning is highlighted in green, but must be revisited and reinforced during this teaching sequence.

Overview

Information Technology Around Us

- Technology is something that has been made by people to help us.

- Technology is 'man-made' and not 'natural.'

- Information technology (I.T.) includes computers and things that work with computers.

-Information technology is in lots of important items in our homes and around the world.

-It is important that we understand how to use information technology safely

Information Technology

-Technology is the name for man-made things that help us.
-Information technology is made up of computers and things that work with computers.

-Information technology includes computers, for example desktop computers, laptops, games consoles smart phones and tablet.

-Information technology also includes devices that work with computers, e.g. USB sticks, SMART boards and digital cameras.

Using Technology Safely

We can follow a rules to use technology safely, e.g.:
-Make sure that the games and apps that we access are age-appropriate.
-Always sit down when using devices. They can be broken if dropped!
-Do not use devices at social times, e.g. at the table. It is bad manners.
-Only use technology at agreed times. Too much screen time is bad for us!
- If you see something upsetting online, make sure you tell a trusted adult

I.T. in the Home

There is lots of Information Technology in our homes. I.T. is used to:

-Control the tools and appliances that we use in the home, e.g. the panel for the heating, setting the washing machine, and programming the microwave.

-Help us to communicate with one another, e.g. the internet router and that helps

I.T. in the World

There is also lots of information technology in the wider world

-I.T. can be found in shops, e.g. the barcode, barcode scanner and till all work together to scan your shopping items.

-I.T. can be found in ATMs, e.g. the keyboard, screen and PIN number and

-I.T. can be found outside, e.g. traffic lights, buttons, and signals work together to tell you when to cross the road.

How I.T. Improves Our World

-Information Technology helps us in lots of different ways in our daily lives.

-I.T. can help to make things quicker and easier. E.g. at the supermarket, the barcodes/ scanners quickly add up the product numbers and costs of the things that we want to buy.

-I.T. can also help us to stay safe. E.g. The traffic lights, buttons and signals help us to avoid traffic when crossing the road.

Technology Computer Mouse Keyboard Information Technology **Device** Barcode Screen Scan