



Topic: Information Technology around us

Year: 2

Strand: Computing systems and networks

Key learning

- To recognise the uses and features of information technology.
- To identify the uses of information technology in the school.
- To identify information technology beyond school
- To explain how information technology helps us.
- To explain how to use information technology safely
- To recognise that choices are made when using information technology.

How Information Technology 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 barcode/scanner 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.
- I.T. also helps us to communicate with one another and have fun! E.g. it can connect us to the internet, and can allow us to play games, share and receive information.



Information Technology 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 bank card, chip and PIN card reader help you to access your bank account.
- I.T. can be found outside, e.g. traffic lights, buttons, and signals work together to tell you when to cross the road.



Types of devices

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



Key Vocabulary

Technology	A man-made tool or device that assists with solving a problem.
Computing	An electronic device that stores and sorts information.
Device	A thing made or adapted for a particular purpose, especially a piece of mechanical or electronic equipment.
Communication	Imparting or exchanging information by speaking, writing, or using some another medium.
Information technology	Is made up of computers and things that work with computers
Responsibly	Being able to make the right decision

Retrieval Quiz

- What is technology?
- How is Information Technology used on the streets?
- How is Information Technology used in a shop?
- How is Information Technology used in the home?
- Name a device that connects to the internet.
- What should you do before agreeing to do something online?

Information Technology in the Home

There are 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 the telephone.
- Entertain us, e.g. the information technology in toys, consoles and computer games.



Online Safety - Education for Connected World link

- I can explain who I should ask before sharing things about myself or others online.
- I can give examples of how someone might use technology to communicate with others they don't also know offline and explain why this might be risky. (e.g. email, online gaming, a pen-pal in another school / country).
- I can explain why I have a right to say 'no' or 'I will have to ask someone'. I can explain who can help me if I feel under pressure to agree to something I am unsure about or don't want to do.
- I can describe different ways to ask for, give, or deny my permission online and can identify who can help me if I am not sure.
- I can explain why I should always ask a trusted adult before clicking 'yes', 'agree' or 'accept' online.