

Key Stage One	Year 2	Computing	Information Technology Around Us
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Key Knowledge

- To understand and explain what technology is
- To be able to identify different types of Information Technology
- To understand how to use technology safely
- To create rules for using technology responsibly
- To begin to understand how Information Technology improves our lives

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

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



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.



Key Vocabulary

Spelling	Definition/Sentence
Technology	A man-made tool or devise that assists with solving a problem
Computer	An electronic devise that stores and sorts information
Device	A thing made or adapted for a particular purpose, especially a piece of mechanical or electronic equipment
Communication	The imparting or exchanging of information by speaking, writing, or using some other medium
Information Technology	Is made up of computers and things that work with computers
Responsibly	Being able to make the right decision

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 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.
- 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.





Year 2 – Computing systems and networks –Information Technology Around Us

In this unit, learners will look at information technology at school and beyond, in settings such as shops, hospitals, and libraries. Learners will investigate how information technology improves our world, and they will learn about using information technology responsibly.

Lesson	Brief overview	Learning objectives
1 What is information technology?	This lesson develops learners' understanding of what information technology (IT) is. They will identify devices which are computers and consider how IT can help us both at school and at home.	<ul style="list-style-type: none"> • To recognise the uses and features of information technology • I can identify examples of computers • I can describe some uses of computers • I can identify that a computer is a part of information technology •
2 Where have we seen information technology in the home?	This lesson encourages learners to consider common uses of information technology in a context that they are familiar with beyond school.	<ul style="list-style-type: none"> • To identify information technology in the home • I can explain the purpose of information technology in the home • I can open a file • I can move and resize images
3 Where have we seen information technology in the world?	Having considered the use of information technology in the familiar context of the home, learners will explore IT in other environments that they may have experienced.	<ul style="list-style-type: none"> • To identify information technology beyond school • I can find examples of information technology • I can talk about uses of information technology • I can compare types of information technology
4 How does IT improve our world?	In the previous lesson, learners looked at where IT is likely to be found and considered where it is less likely to be found. This lesson focuses on the specific use of IT in a shop.	<ul style="list-style-type: none"> • To explain how information technology benefits us • I can demonstrate how information technology is used in a shop • I can recognise that information technology can be connected • I can explain how information technology helps people
5 Demonstrate safe use of information technology	In this lesson, learners will consider how they use different forms of information technology safely, in a range of different environments.	<ul style="list-style-type: none"> • To show how to use information technology safely • I can list different uses of information technology • I can recognise how to use information technology responsibly • I can say how those rules/guides can help me
6 Using information technology responsibly	In this lesson, learners will think about the choices that are made when using information technology, and the responsibility associated with those choices.	<ul style="list-style-type: none"> • To recognise that choices are made when using information technology • I can identify the choices that I make when using information technology • I can explain simple guidance for using information technology in different environments and settings • I can enjoy a variety of activities

