

**COMPUTING: SYSTEMS, NETWORKS AND ONLINE SAFETY- I.T. AROUND US.**

KNOWLEDGE ORGANISER

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| **Overview** |  | I.T. in the Home | I.T. in the World |
| The Internet of Things - Blog Posts - Information Security - Santa ... Technology Around Us-You should already know that 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.  |  | 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. | 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. |
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| **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. |  |
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| **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.-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 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 create and follow a number of 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.-Stick to using technology at agreed times. Too much screen time is not good for us!* If you see something upsetting online, make sure you tell a trusted grown up.
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Important Vocabulary

Information Technology Computer Barcode Scan