

The Flourish Federation—Knowledge Organiser

Brookfield Infant and Junior Schools



Computing Focus:	Information Technology — Hardware & Processing	Year 1	Term 6
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What? (Key Knowledge)
I use ICT hardware to interact with age appropriate computer software.
I begin to understand that computers have no intelligence and can do nothing unless a program is
I recognise that all software executed on digital devices is programmed.
I begin to recognise and use a range of input and output devices i.e. robotics.

Useful Web Links
https://www.purplemash.com/sch/brookfield-infant
Children all have home access. Log in details are in the front of Reading Record books.


Cross-Curricular Links
Geography- google maps link to U.K physical/ human features
Science- minibeast hunt/ plants

What? (Activities)
I use ICT hardware to interact with age appropriate computer software. Use the computer mouse and keyboard to navigate google maps to look at U.K physical and human features Use ipads and label parts of a plant. Link to Science Use purple mash to create pictogram from data collected on minibeast hunt
I begin to understand that computers have no intelligence and can do nothing unless a program is used. Ask children how a computer works. Are there any other things that won't work unless they are programmed? Make a list of anything children think uses technology. Give examples such as phones, calculators, microwaves etc Share powerpoint 'How technology is used outside school. Discuss how things work/ how we use technology
I recognise that all software executed on digital devices is programmed. Children can give a simple explanation of how software enables something to work. Eg when keys are pressed on a keyboard this sends a message to the computer with an instruction
I begin to recognise and use a range of input and output devices i.e. robotics. Use post it notes to label input and output devices familiar to us such as mouse, keyboard, speaker, screen.

What? (Key Vocabulary)	
Spelling	Definition
hardware	Computer hardware is the collection of physical parts of a computer system. Computer hardware is what you can physically touch, includes the computer case, monitor, keyboard, and mouse.
software	Computer software, is a set of instructions and that tells a computer what to do or how to perform a task. Software includes all different software programs on a computer, such as applications and the operating system.
Processor/processing	A central processing unit (CPU) is an important part of almost every computer. The CPU sends signals to control the other parts of the computer, almost like how a brain controls a body. The CPU is an electronic machine that works on a list of things to do, called instructions.

What? (Key Vocabulary)	
Spelling	Definition
Input	In computing, an input device is computer hardware which is used to enter data for processing. Examples of input devices include keyboard, mouse, image scanner, digital cameras and joysticks.
Output	An output device is any hardware device used to send data from a computer to another device or user. ... Typical examples of output devices are monitors and projectors (video), headphones and speakers (audio), or printers .
Program/programming	The process of telling a computer to do certain things by giving it instructions. These instructions are called programs
Technology	Science and engineering knowledge put into practical use to solve problems or invent useful tools.

Visuals

Key Questions

What is technology?

Technology is the use of knowledge to invent new devices or tools. Throughout history, technology has made people's lives easier.

How does technology make our lives easier?

Technology has made life easier in many areas. It is now much easier to communicate around the world. Messages that used to take weeks to reach the sender can now be sent and received in seconds. We are surrounded by technology from your toys, to machines in your house to systems that control traffic and planes.

