

Year 3 - Online safety

Auto complete	When software guesses what you are typing and suggests a word or phrase.
Belief	Something we accept to exist or be true, usually without proof.
Fact	Something that can be proven to be true by evidence.
Fake news	Online news or stories that are not true.
Opinion	A view or judgement about something.
Privacy settings	The controls put in place to manage what kind of information and how much of your information can be shared with or seen by other people and companies.
Social media platforms	Websites and apps where people can share information about what's happening in their lives.

Key facts

BBC's Own It website (<https://www.bbc.com/ownit>) has lots of tips and information to help you stay safe online



It is important to think about what information we share online.



Digital devices are communicating all the time and sharing our personal information between themselves.

Age restrictions show the minimum age you should be to use social media sites and apps.

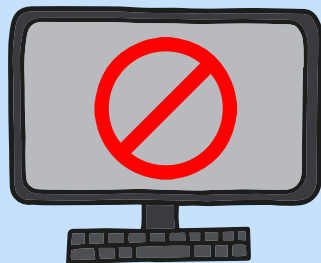


If something online makes you feel uncomfortable or scared:

Block it and report it

Check your device and privacy settings

Tell a trusted adult

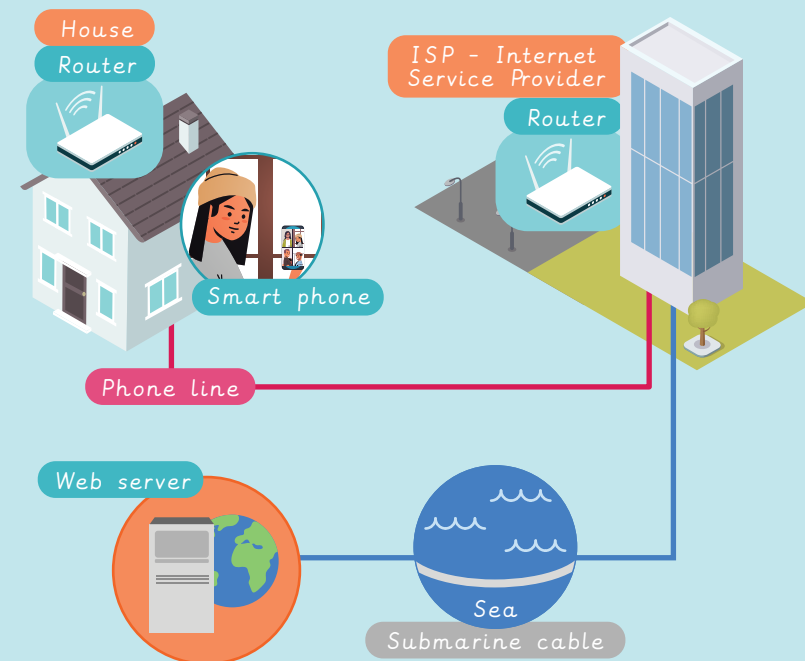


Networks and the internet

Device	Equipment created for a certain purpose or job.
DSL	Digital Subscriber Line. An internet connection for rural areas, where wired services are not available. It uses communication satellites to send and receive data and is a slower internet connection than wired connections.
File	An item on a computer that can keep data in various forms such as images, music and documents.
Internet	A worldwide network, enabling tens of millions of computers around the globe to share vast amounts of information, and communicate with other online users across the globe.
Network	When more than one electronic device is connected in a network through the internet or a local connection in order to share files and information.
Network map	A diagram that shows what type of and how many devices are on a network. It also shows how they are connected to each other.
Network switch	A device that deals with the movement of network information.
Router	The main device responsible for providing internet access to a network, and can be connected to through a wired connection or WiFi.
Server	A computer or computer program that provides data and information to other computing devices.
Submarine cables	Cables that run under the sea to allow information to be accessed and (shared around the world or across continents.)
The Cloud	Refers to data and files that are stored and accessed on servers via the internet.
WiFi	When you have, or can connect to a network that is wireless.
Wired	An electronic device is considered 'wired' when it is connected to the network through cables.
Wireless	An electronic device is considered 'wireless' when it is connected to the network through signals.
Wireless access point	A device that enables other electronic items to connect wirelessly to the internet.

Key facts

Network map:



The internet can be used for:

A person is shown from behind, sitting at a desk and using a laptop. The laptop screen displays a video conference with four participants. To the right of the person is a list of internet uses:

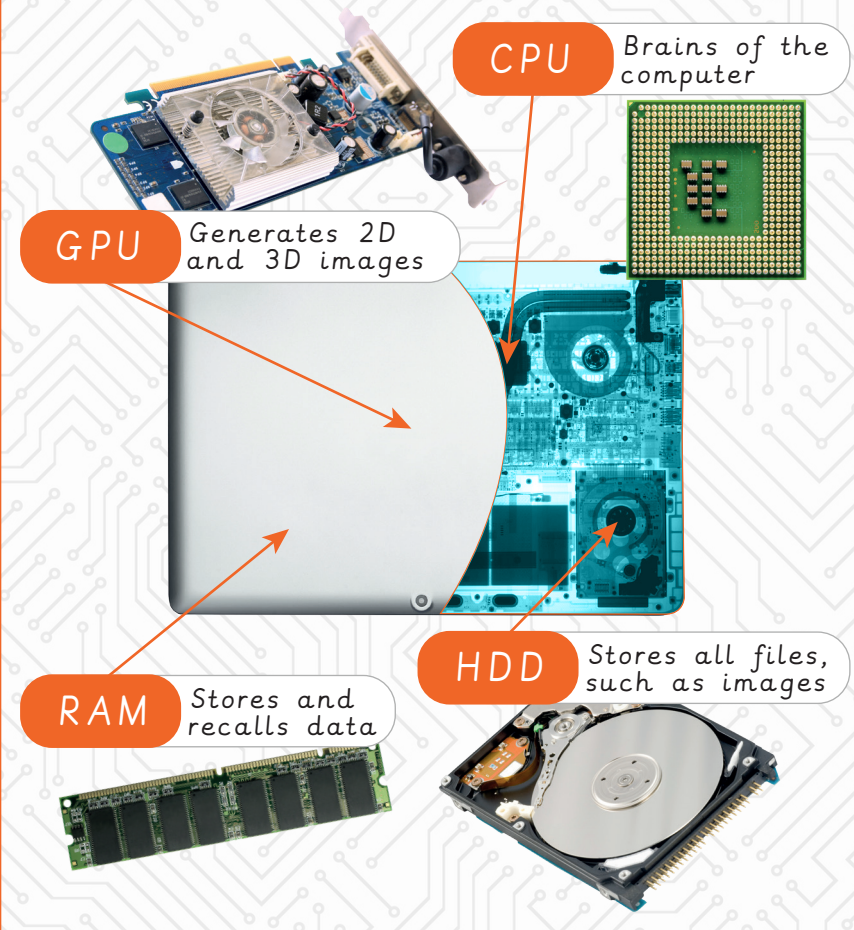
- Communicating (email, video call, voice call etc.)
- File sharing
- Websites
- Uploading and downloading files
- Streaming media (videos, music etc.)
- Playing online games

Journey inside a computer

Algorithm	A sequence of instructions when followed, solve a problem.
Computer	Electronic machine that accepts and processes information to produce an output, and then stores the results.
Computer Program	A series of instructions, that are written for a computer to follow, using inputs and outputs to produce an outcome. Also known as software or applications (apps).
CPU	Central Processing Unit. The brain of a computer that deals with all the data it receives from input and output devices, as well as programs run within the computer.
Data	Information used for a specific purpose or investigation.
Desktop	A tower computer that needs a mouse, keyboard and monitor, that remains in one place.
GPU	Graphics Processing Unit. It is a piece of hardware that is used to help generate 2D and 3D images for programs such as games.
Hard disk drive HDD	An internal or external device that can store information such as files, documents, images and programs.
Instructions	A series of steps that need to be performed in order.
QR code	Quick Response code. Is presented in a similar way to a bar code and when scanned, takes you to a specific website or provide information.
RAM	Random Access Memory. A piece of hardware that allows data to be recalled or stored within a computer.
ROM	Read Only Memory. Information stored within ROM can only be read and not edited.
Tablet device	A handheld computer, that consists of a touchscreen, operating system and a rechargeable battery.
Trackpad	An input device commonly found built into laptops. It is used to move the cursor with the touch of your finger, and some allow for multiple finger gestures.

Key facts

Computer parts inside of a laptop:



Other portable electronic devices:



Scan each of these quick response codes, with a QR scanner app or device and see where they go!

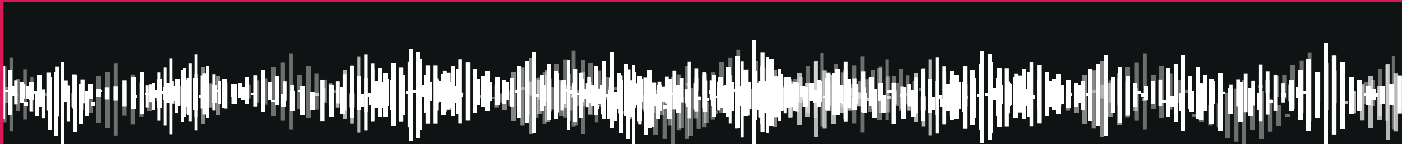


Video trailers

Application	A computer program, sometimes referred to as an app.
Desktop	A tower computer that needs a mouse, keyboard and monitor, that remains in one place.
Digital device	Electronic devices that operate off a binary system in 1s and 0s.
Edit	To change and amend something.
Film	Recorded moving pictures, that can make up a clip or film.
Film editing software	Software with editing abilities to cut, crop and add effects to video footage.
Graphics	The use of images or visuals designed to communicate, demonstrate a concept or promote something.
Import (software)	To pull another file into software, to place, edit and manipulate.
Key events	Important parts within a narrative or a particular period in time.
Laptop	A compact computer that is easy to carry and move around.
Plan	An idea about how to do something in future.
Recording (media)	To capture sounds or video footage, using an electronic device.
Sound effects	Sounds to enhance an event or bring fantasy aspects to life in a film or other media, for example, the whoosh of a time machine.
Time code	Time references on film or animations.
Video	Recorded moving pictures, that can make up a clip or film.
Voiceover	A voice recording which overlays a video or presentation.

Did you know?

Digital sound waves can be viewed and edited on a computer. They look like this:



Key facts

Transitions are visual effects that can be applied to occur in-between digital media (slides, images or video clips).

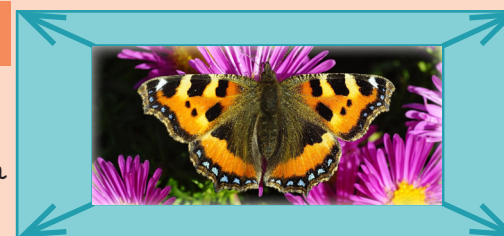
Morph

The media appears from a selected corner.



Cross zoom

The media zooms and fades in from the middle.



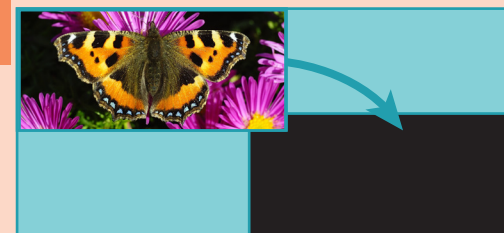
Peel off

The page peels off to reveal the media.



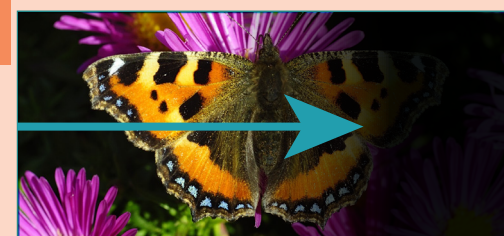
Dip to black

The media fades to a black screen.



Directional wipe

The media appears from a selected side.

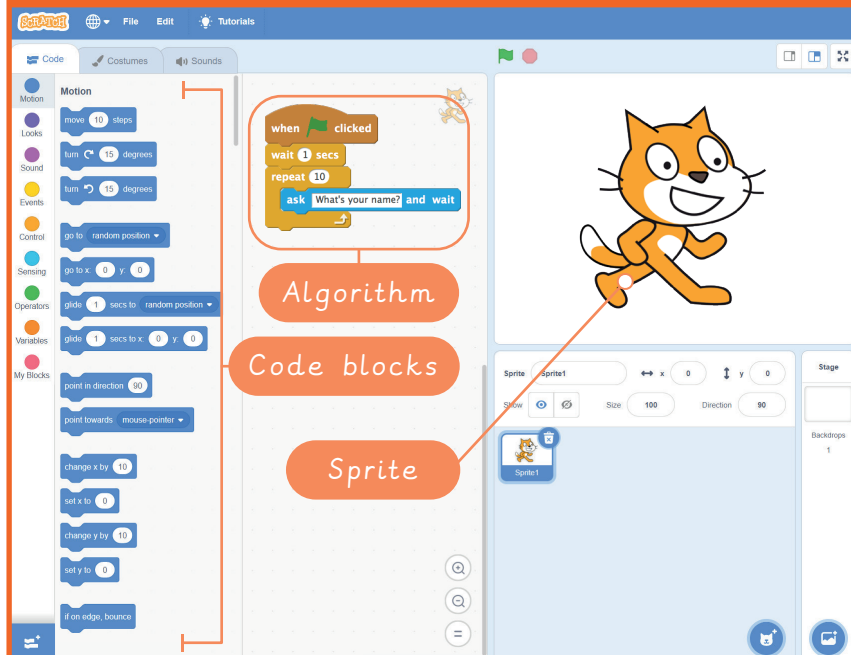


Programming - Scratch

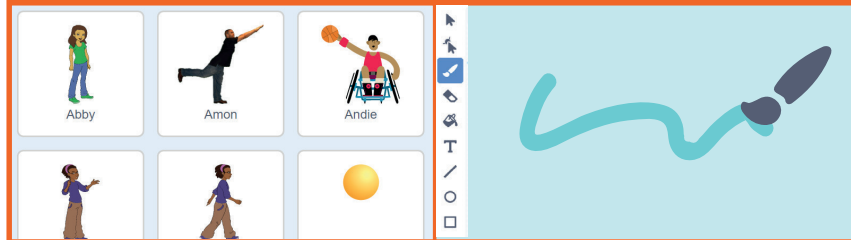
Animation	Bringing concepts to life through 2D or 3D moving pictures or photographs, for example cartoons.
Application	A computer program.
Code	A set of instructions written in programming language, to tell a computer what to do.
Code block	A visual representation for a section of code that performs a certain job. They can be snapped together to build a program.
Debug	To remove and repair the error or mistake in computer code.
Decompose	To break something down into smaller chunks.
Interface	The menus, buttons and other functions which makes a computer program or website intuitive to humans.
Loop	A repeated sequence of instructions.
Predict	To make an educated guess, as to what might happen or occur as the result of something in the future.
Program	A series of code that instructs the computer to perform specific tasks.
Remixing code	Altering code that already exists.
Repetition code	To create loops in your program, to make it more efficient.
Review	To look at something in detail and give constructive feedback if it requires improvement.
Sprite	Visual objects that can be moved or perform an action through code, for example: move forwards by one step.
Tinker	To explore and play with something to discover the key functions.

Key facts

Scratch is a coding program, that lets you build interactive games and animations.

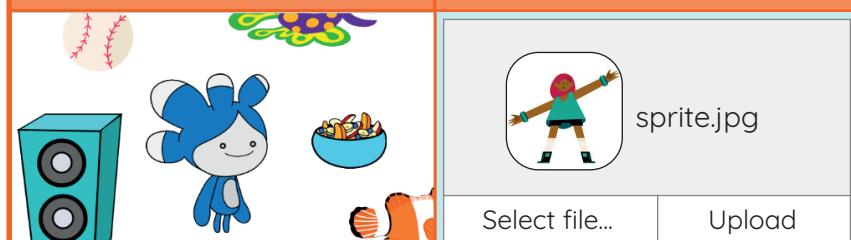


Did you know? In Scratch, you can:



Choose a sprite

Paint your own sprite



Generate a random (surprise!) sprite

Upload a sprite

Scratch code blocks colour key:

Motion

Sound

Control

Operators

Looks

Events

Sensing

Variables

My Blocks