

## Year 1 - Online safety

Digital footprint	The content someone shares about themselves online.
Going online	Connecting to the internet.
Internet	Lots of computers connected to one another.
Personal information	Information about us e.g. full name, address, birthday.
Post online	Placing information (such as photos or comments) on the internet.
Sharing online	Sharing content (music, photo, videos) or information online.
Smart device	A device on which you can use apps, a camera and make voice/video calls.

Lots of devices can connect to the internet such as laptops, desktops, mobile phones, games consoles and tablets.



## Key facts

Once we share or post information online we leave a 'digital footprint'.



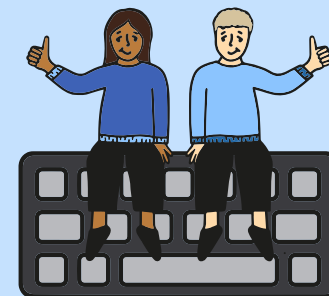
People can find out information about us if we share things online.

## Staying safe online

People you do not know on the internet are strangers.



Be nice to people just like you would in the real world.



Keep your personal information private.



If you are unsure about anything, tell an adult you trust.

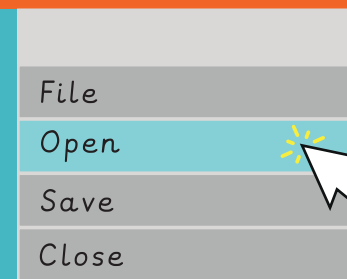


## Improving mouse skills

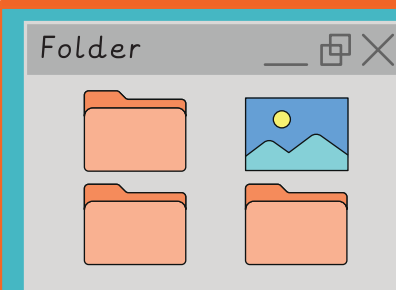
Account	Somewhere our information can be stored and seen safely using a username and password.
Clipart	A collection of images that can be used on the computer.
Computer	Electronic machine that accepts and processes information to produce an output, and then stores the results.
Log on	To put in a username and password unique to you, to access your personal account.
Log off	To lock your account.
Mouse	A handheld device that is used to move things around on the computer screen.
Password	A secret word made up of letters, numbers and symbols.
Resize	To change the height and width of an object.
Screen (monitor)	A device that shows what is happening on the computer, such as videos, pictures and words.
Software	A series of instructions written for a computer to follow. Also known as apps.
Tool	An object that helps us with a particular task. For example, a ruler helps us measure.
Username	A unique name or email address for your account.

## Key facts

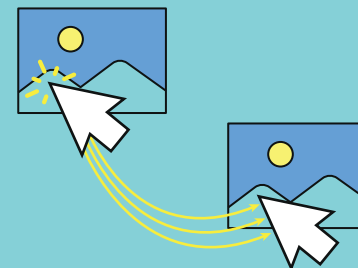
Computer menu:



Computer window:



Computer mouse skills:



Click and drag



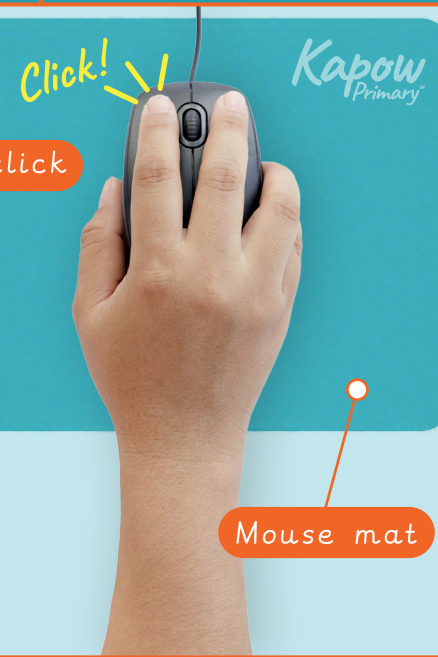
Drag and drop

Can you find all the letters of your name on the keyboard?



Left click

Right click



Mouse mat

## Algorithms unplugged

Algorithm	A clear set of instructions to carry out a task.
Bug	An error or mistake in computer code.
Computer	Electronic machine that accepts and processes information to produce an output, and then stores the results.
Debug	To fix the error in code.
Decompose	To break something down into smaller chunks.
Device	Equipment created for a certain purpose or job.
Input	A way of telling the computer what you want it to do.
Instructions	A list of commands and directions on how to do something.
Output	Information or data that is sent by the computer to an output device such as a printer or speakers.
Solution	The method to solve a problem.

Full picture:



Decomposition:

Shape:	How many?	Body part
	One	Eye
	One	Head
	One	Beak
	One	Wing
	One	Body
	Two	Legs
	Two	Feet

## Key facts

An algorithm for brushing your teeth:



1. Brush your front teeth



2. Add some toothpaste



3. Get your toothbrush



4. Brush your back teeth



5. Rinse your mouth



6. Smile!



There is a bug in the algorithm!

1. Get your toothbrush



2. Add some toothpaste




3. Brush your front teeth



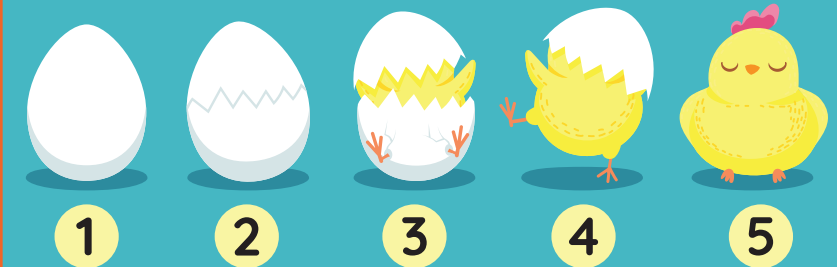
## Digital imagery

Camera	A device used to take, or record, pictures of people and objects.
Crop	When you change the height and/or width of an image.
Delete	To remove from a computer, text or files such as images.
Download	To save a file from the internet or another computer.
Drag and drop	When you move and place text or a file on a computer.
Editing software	Any software program that lets you change an image or video in any way.
Image	A picture.
Import (software)	To place another file into a document, such as an image.
Photograph	Still images that are taken by a camera.
Resize	To change the height and width of an object.
Save as	Lets you name and store a file on a computer.
Search engine	A website that lets you search for information on the internet.
Sequence	A set order or pattern for something to follow.
Smart device	An electronic device, connected to other devices or the internet.
Storage space	A place for keeping information for future use.
Visual effects	The process where images are created or changed.

 Tell an adult if you see something online that makes you feel unhappy.

## Key facts

An example of a sequence: egg-hatching



Different types of camera:



When taking photographs, remember to:

Check that there is enough light

Check the camera frame, to position your photograph

Hold the camera still, because movement can blur the photo

Make sure you get all of the subject in the photo

Low light

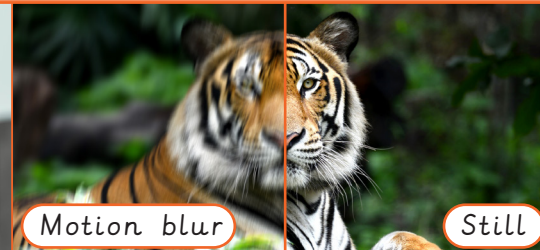


Lights on

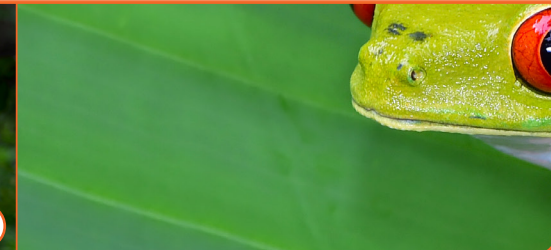
Frame



Motion blur



Still

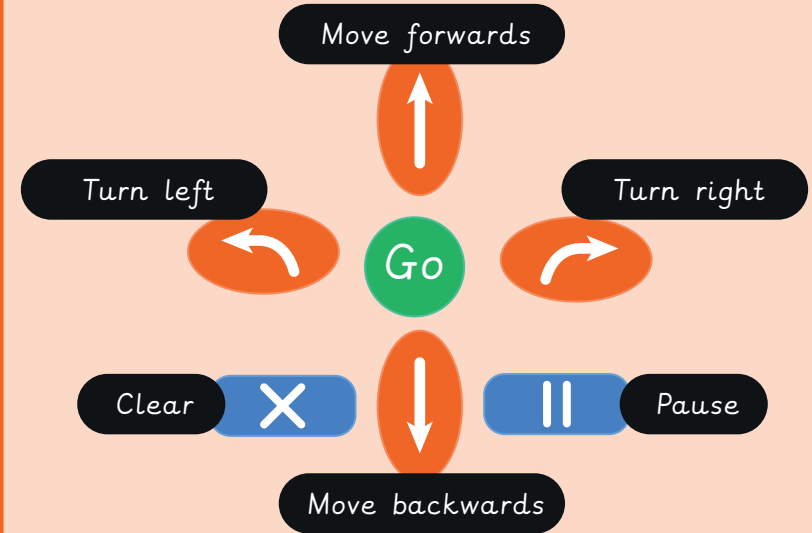


# Programming - Bee Bot

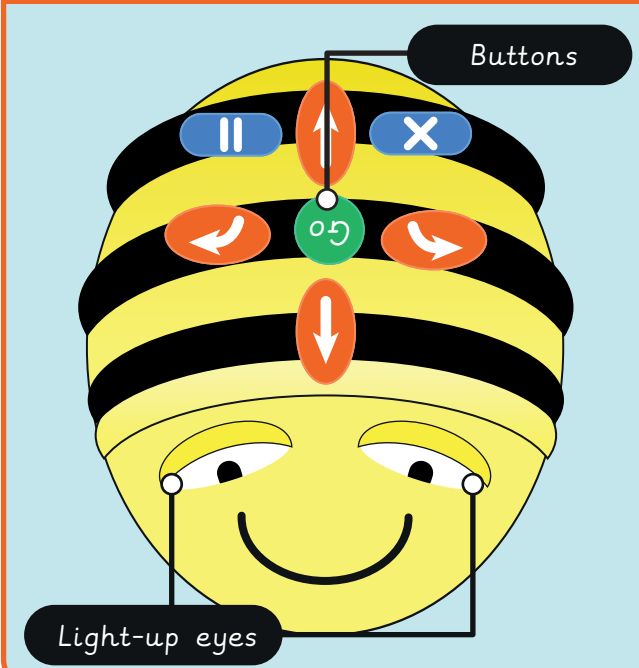
Algorithm	A clear set of instructions to carry out a task.
Bee-Bot	A small programmable floor robot, with seven buttons (forwards, backwards, turn right, turn left, go, pause and clear).
Computing code	Words, numbers and symbols that make a computer language.
Computer program	A series of instructions, that are written for a computer to follow. Also known as apps.
Explain	Give clear information about something to someone.
Explore	Look at something new to learn more about it.
Instructions	A list of commands and directions on how to do something.
Predict	To make a guess.
Tinker	To explore and play with something to discover what it can do.
Video	Moving pictures, that make up a film or cartoon.

## Key facts

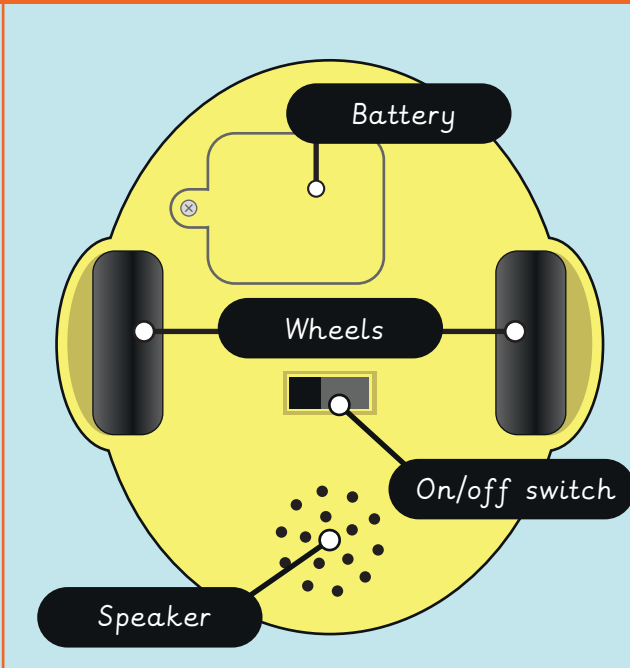
Bee-Bot buttons:



On top of the Bee-Bot



Under the Bee-Bot



Where will the instructions take Bee-Bot?