Year 2 - Online safety

Media content	Photos, videos or messages.		
Offline	Not being connected to the internet.		
Online	Being connected to the internet via a device such as a computer, laptop or phone.		
Passwords	A word or set of numbers we use to access our personal information online. It helps to keep our online information safe - like a key!		
Personal information	Information such as our full name, address, birthday, or where we go to school.		

Permission:

We must ask someone's permission before sharing photos, videos or information about them.





It is ok to say no when someone asks if they can share something online about us.



Key facts





What is a computer?

Key facts



Battery	A cell or connected group of cells that store electrical energy to power wireless devices.	
Buttons	Switches that you can press to control a device.	
Computer	Electronic machine that accepts and processes information to produce an output, and then stores the results.	
Desktop	A tower computer that needs a mouse, keyboard and monitor, that stays in one place.	
Device	Equipment created for a certain purpose or job.	
Electricity	A type of energy, that is usually invisible, that can be made or stored and used to make devices work.	
Input	A way of telling the computer what you want it to do.	
Invention	A new device or process which solves a problem.	
Keyboard	An input device made up of buttons that create letters, numbers, and symbols, as well as perform other functions.	
Laptop	A compact computer that is easy to carry and move around.	
Monitor	An output device, which shows what is happening on the computer for example videos, images and text.	
Mouse	A handheld device that is used to move things around on the computer screen.	
Output	Information or data that is sent by the computer to an output device such as a printer or speakers.	
Technology	Using scientific knowledge to help us to create new devices or tools.	
Wire	A long, thin and flexible piece of metal protected by a plastic coating. Electrical wire is used to carry electricity.	

Some computers have a keyboard, screen and mouse, others have buttons to make them do things.



All computers need electricity - they can get this through wires into the wall or batteries!

These items all use technology.











Algorithms and debugging

Abstraction	To pick out the important information.		
Algorithm	A clear set of instructions to carry out a task.		
Artificial intelligence	Computers that can perform the tasks that humans normally do.		
Bug	An error or mistake in computer code.		
Correct	Free from mistakes.		
Data	Information used for a specific purpose or investigation.		
Debug	To fix the error in code.		
Decompose	To break something down into smaller chunks.		
Error	A mistake.		
Key features	Important parts of something.		
Loop	A repeated sequence of instructions.		
Predict	To make a guess.		
Unnecessary	Not needed.		

Abstraction: Key information

Remember to take spare clothes, including t-shirts, trousers, a coat, underwear and a hat. There will be a lot of wet weather in the rainforest, so wrap up to stay dry.

You might hear lots of animals, such as monkeys and parrots. Keep close to the adults and be careful where you step.

Do not forget to <mark>take a drink and a snack.</mark>

Decomposition: Smaller chunks

List for the rainforest:

- Take spare clothes
- Wet weather
- Keep close to the adults
- Take a drink and a snack



Key facts





5. Add a drop of milk

6. Stir well

International Space Station

Approximate

Astronaut

Experiment

Interpret

Laboratory

Satellite

Sensor

Space

Survival

Thermometer

Monitor (verb)

International Space Station (I.S.S)

Data





Being close but not exactly the same as something.	$\bigcirc \bigcirc $			
Someone who is trained to control a spacecraft.				
Information used for a specific purpose or investigation.		4		
Information and media such as videos and pictures stored on a computer.	on			
To trial and test new ideas.				
A digital map which can be searched, zoomed in or out of and provide information about a place.				
A laboratory in space that orbits the Earth.		3		
Explain the meaning of something to someone else or to yourself.			Connects U.S. and Russian	
A place where scientists carry out research and experiments to discover more about something.	1	Node I (Unity)	modules of the I.S.S.	
To check the status of something.	2	Node 2	Connects the American, European and Japanese modules.	
A computer that orbits the Earth to provide information or communication services.	3	Node 3	Sleeping and resting area.	
A tool or device that is designed to monitor, detect and respond to changes.	4	Zvezda (Star)	Central hub for Russian astronauts.	
A vast area around and beyond planet Earth, which is not	5	Zarya (Sunshine)	Russian research module.	
inhabited.	6	Destiny	American research module.	
To stay alive in bad conditions.	7	Columbus	European research module.	
A device that measures and displays the temperature of something using a scale (°C or °F).	8	Kibo (Hope)	Japanese research module.	





The Vegetable Production System, known as 'Veggie' is a device used to understand and support plants to grow in space on the I.S.S. It helps produce fresh food for the astronauts.



Programming - Scratch JR				
Algorithm	A clear set of instructions to carry out a task.			
Animation	Pictures or photographs in a sequence to give the illusion of movement.			
Bug	An error or mistake in computer code.			
Code (computer) A set of instructions written in programming langutell a computer what to do.				
Code (verb) To write in programming language (code).				
Debug	To fix the error in code. A small image which represents something or someone.			
Icon				
Imitate	То сору.			
Instructions	A list of commands and directions on how to do something			
Loop	A repeated sequence of instructions.			
Repeat	To do the same again.			
Scratch JR	A simple, block-based coding application, in which you can instruct Scratch the cat.			
Sequence	A set order or pattern for something to follow.			

A Scratch JR algorithm with a loop:



Key facts



