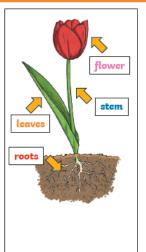
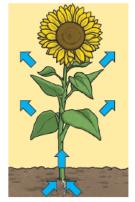
Plants Year 3

Key Vocabulary		
roots	These anchor the plant into the ground and absorb water and nutrients from the soil.	
stem	This holds the plant up and carries water and nutrients from the soil to the leaves. A trunk is the stem of a tree.	
leaves	These make food for the plant using sunlight and carbon dioxide from the air.	
flowers	These make seeds to grow into new plants. Their petals attract pollinators to the plant.	
nutrients	These substances are needed by living things to grow and survive. Plants get nutrients from the soil and also make their own food in their leaves.	
evaporation	When a liquid turns into a gas.	

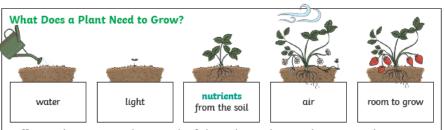


How Water Moves through a Plant

- The roots absorb water from the soil.
- The stem transports water to the leaves.
- Water evaporates from the leaves.
- This evaporation causes more water to be sucked up the stem.



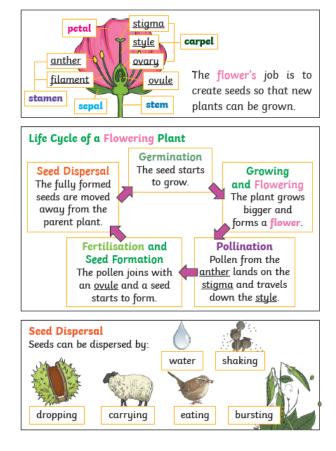
The water is sucked up the **stem** like water being sucked up through a straw.



Different plants vary in how much of these things they need. For example, cacti can survive in areas with little water, whereas water lilies need to live in water.

To look at all the planning resources linked to the Plants unit, <u>click here</u>.

Key Vocabula	Key Vocabulary		
fertilisation	When the male and female parts of the flower have mixed in order to make seeds for new plants.		
petal	The brightly coloured part of the flower that attracts insects to pollinate the plant.		
stamen	The male parts of the flower. The stamen is made up of the anther and the filament. The filament's job is to hold up the anther. The job of the anther is to make the pollen.		
carpel (pistil)	The female parts of the flower. Made up of the stigma, style and ovary. The job of the style is to hold up the stigma. The stigma collects the pollen when a pollinator brushes by it. The ovary contains the ovules, which are the part of the flower that gets fertilised and eventually becomes the new seed.		
sepal	Leaf-like structures that protect the flower and petals before they open out.		
pollination	When pollen (a fine powdery substance produced by a flowering plant) is moved from the male anther of a flower to the female stigma.		
pollinator	Animals or insects which carry pollen between plants. Examples include birds, bees and bats.		
germination	When a seed starts to grow.		
seed dispersal	A method of moving the seeds away from the parent plant so that the seeds have the best chance of survival.		



Rainforests Year 3

Key Vocabulary		
climate	The average weather conditions over a long period of time.	
deforestation	The cutting down and clearing of forests.	
equator	An imaginary circle running round the centre of the earth.	
humid	Feeling very damp due to water vapour in the air.	
native tribes	The original settlers of an area.	
species	A group of similar animals or plants	
weather	The specific condition on a given day.	

The Amazon Rainforest

- 5.5 million square km (previously covered a much larger area)
- · Parts in Brazil, Peru, Colombia, Venezuela, Ecuador, Bolivia, Guyana, Suriname and French Guiana
- · 2.5 million insect species
- 40 000+ plant species
- · 3 000 edible fruits
- · 2 000+ species of birds and mammals



- · 2 million tourists per year
- · 170 different languages spoken
- · 250 000 native tribes currently live there

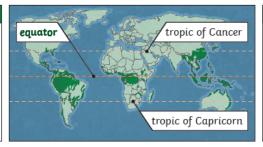


Where in the World?

Rainforests are found near to the equator between the tropic of Cancer and the tropic of Capricorn.

They can be found in every continent except Antarctica.

They are located in countries such as Brazil, India, Peru, Mexico, Australia and Malaysia.



The climate in the rainforest is the same all year round.

- · Average rainfall of 6cm each month
- · Usually rains every day
- Hot and humid

Emergent Layer	Canopy Layer	Understorey Layer	Forest Floor
Trees can be up to 60m tall	Trees form a roof over the plants below	Trees grow to less than 4m tall	Very few plants
Lots of sunlight	Lots of sunlight but also plenty of rain	Very little sunlight	Almost no sunlight
Cold and windy	Lots of food for animals	Warm and humid	Leaves and debris decompose quickly
Birds,bats,monkeys and butterflies	Snakes, toucans and tree frogs	Lots of insects	Gorillas, anteaters, leopards and tigers

· to create fields for farming cattle and growing crops, furniture and paper,

Deforestation Trees are cut down:

· to produce timber and wood pulp to make

Positive Impacts	Negative Impacts	
• Jobs are created in logging and	 People's homes are destroyed. 	
transporting timber and manufacturing products.	 Animals and plants may become extinct through habitat loss. 	
 Selling land raises money for local people. 	Plants that may have been useful could be lost.	

What Can Be Done to Protect the Rainforest? Use both sides of a piece of paper, Use ebooks or a library rather than and use pencils until they are stubs. buying new books.

Turn off lights and electrical items when Buy Fairtrade fruit, vegetables, chocolate not in use. and coffee.



Online Safety Year 3

Key Vocabulary	
digital device	Any piece of equipment that contains a computer or microcontroller, such as a smartphone, smartwatch or laptop.
email	Short for electronic mail. Email is a way to send and receive digital messages over the Internet using an email address.
email address	A unique name chosen by the account owner. It can contain letters, characters and numbers and includes the @ symbol followed by the email domain name.
Internet	The Internet is a large network of computers connected to each other all around the world.
online	When a user, computer or another PC device connects to the Internet , it is online .
online communication	A way in which we interact with other people using technology over the Internet .
password	A secret combination of letters, numbers and characters to confirm the user when logging in.
privacy settings	Settings on a website, app or PC device that allow you to to choose how much information or data is shared with other people.
social media	Online communities that share content, such as chat, images, videos or music.
website	A collection of web pages grouped together.

What Is a Digital Footprint?

A digital footprint is a trail of information you leave behind when using apps and websites. Every time you visit a website, download an app or play a game online, a tiny bit of information about you is saved. This makes up your digital footprint.



Keeping Personal Information Safe

Passwords and privacy settings are both really, really good ways of keeping your information private and keeping you safe online.

Passwords stop people from getting into your account, but they also stop people from seeing any private information that might be in your account.

Privacy settings mean that you can control what people can see on your account.

How Can I Tell If an Email Is Safe to Open?

It is important to remember that most **email** providers have age restrictions. Usually, you cannot have your own **email address** until you are thirteen years old.

You might also be able to have an **email address** on a closed network. Your school may set you up an **email address** which you can use to **email** other people in your school.

On a closed network, only authorised computers or **email addresses** would be able to connect. This means you would only be able to send or receive **emails** from the addresses that are part of the school network.

There are some basic rules to follow when deciding if an email is safe to open.

One or more of these things might mean an email is safe to open:

- · You know the sender and the subject is something that seems normal.
- · It is from email address that you recognise.
- · It is an email you are expecting.



One or more of these things might mean an email is unsafe to open:

- · An unknown or strange-looking email address.
- An email address pretending to be something else (e.g. instead of teacher@twinkl.co.uk, the address might say twin.kl.teacher@net.uk)
- · Spelling mistakes in the subject or a strange subject title.

Cyberbullying

Cyberbullying (also known as online bullying) is any form of bullying that takes place online and causes harm or distress to a person or group of people.

Remember, if you see anything **online** that makes you feel upset or uncomfortable:

Report - Report via the **online** site that you experience it on, then tell a trusted adult about it and ask for help.

Save - Keep evidence; take screenshots.

Block - Block the person or group of people responsible.

What Is Target Advertising?

This is when companies use your digital footprint to see what kind of things you might be interested in and then make sure that you see those adverts more often.