Plants

Roots

Key Vocabulary		Key Knowledge
germination	When the conditions are right, the seed soaks up water and swells, and the tiny new plant bursts out of its shell. This is called germination.	Dies Germinario
sprout	When a plant sprouts , it grows new shoots .	
shoot	A shoot grows upwards from the seed or plant to find sunlight .	
seed dispersal	Seed dispersal is when the seeds move away from the parent plant. They can be moved by the wind or animals.	Roo Life Cycle of a Plant
		Flowers

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



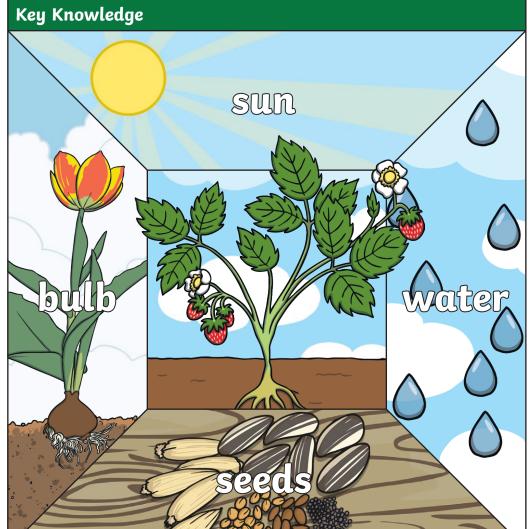


Key Vocabulary

What do plants need to grow well?

sunlight	All plants need light from the sun to grow well. Some plants need lots of <mark>sunlight</mark> . Some plants only need a little <mark>sunlight</mark> .	
water	All plants need water to grow. Without water , seeds and bulbs will not germinate .	
temperature	Temperature is how warm or cold something or somewhere is. Some plants like cooler temperatures and some like warmer temperatures .	
nutrition	Food or nourishment. Plants make their own food in their leaves using <mark>sunlight</mark> .	









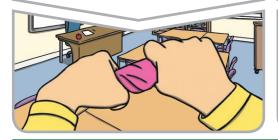
Uses of Everyday Materials

Key Vocabulary	
materials	Materials are what objects are made from.
suitability	Suitability means having the properties which are right for a specific purpose.
properties	This is what a material is like and how it behaves (soft, stretchy, waterproof).

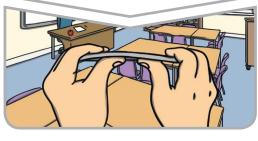
Squash an object by pushing both hands together.



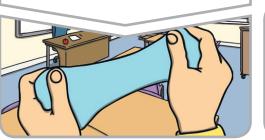
Twist an object by turning your hands in opposite directions.



Bend an object by grabbing both ends of the object and bringing the ends inwards together.



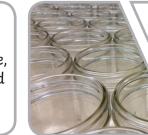
Stretch an object by pulling your hands slowly and gently apart.



Key Knowledge **Properties of Materials**



hard, stiff, strong, opaque, can be carved into any shape.



glass: waterproof, transparent, hard, smooth.





metal: strong, hard, easy to wash.



paper: lightweight, flexible.



cardboard: strong, light,

fabric: soft, flexible, hard-wearing, can be stretchy, warm, absorbent.



rubber: hard-wearing, elastic, flexible, strong.





Uses of Everyday Materials

Keu	Knowledge	

John McAdam	John McAdam was a Scottish engineer who experimented with using new materials to build roads, inventing a new process called 'macadamisation'.
John Dunlop	John Dunlop was a Scottish inventor who invented the air-filled rubber tyre. It was originally invented in 1887 to use with bicycles, and then became very useful when automobiles were developed.
Charles Macintosh	Charles Macintosh was a Scottish inventor and chemist who invented waterproof fabrics in 1818. The Mackintosh raincoat was introduced in 1824.
Macadamisation	Macadamisation was the name given to John McAdam's construction process of building roads. The name tarmac means a road made like this using tar.

To look at all the planning resources linked to the Uses of Everyday Materials unit, <u>click here</u>.

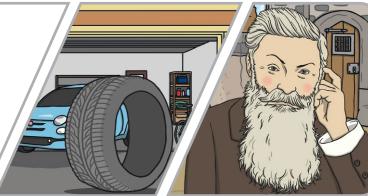
People who developed new materials:

John McAdam's process was so successful that roads were built in this way right across the world.



John Dunlop originally used rubber to make tyres for his son's tricycle.

Charles Macintosh invented the first waterproof fabric by painting a dissolved rubber solution onto cloth.







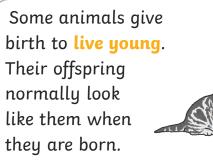


Animals Including Humans

Key Vocabulary		
adult	A fully grown animal or plant.	
develop	To grow and become stronger.	
life cycle	The changes living things go through to become an adult.	
offspring	The child of an animal.	
reproduce	When living things make a new living thing of the same kind.	
young	Offspring that has not reached adulthood.	
live young	Offspring that has not hatched from an egg.	

All young animals change at different stages as they grow into adults.

All living things **reproduce** and have **offspring**.



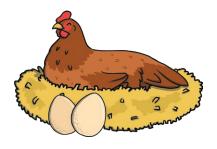


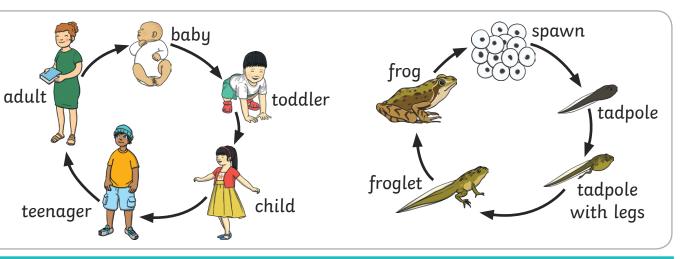
Other animals have offspring which do not look like

them, e.g. fish and amphibians.

ke n and Some animals lay eggs which hatch into live young. This **young** then develops into an **adult**.

When these eggs hatch, some animals look like their adult, e.g. birds and reptiles.









Animals Including Humans

Key Vocabu	lary	To stay alive, all	air	water	food
dehydrate	To lose water (dry out).	animals have 3			MARCO
diet	The food and water that an animal needs.	basic needs:		F	
disease	Illness or sickness.		7-7 7-7		· · · · · · · · · · · · · · · · · · ·
energy	The power needed to carry out a task.	To grow into a		vell Guide	Water, lower 6-8
exercise	A physical activity to keep your body fit.	healthy adult, we must eat the right types of food in	atable	Carbonut and Carbo	
germs	Bugs that cause disease and illness.	the right amount and exercise.	t and ve		drinks including tea and coffee all count.
heart rate	The number of times a heart beats in one minute.		fruit		Eat less often and
hygiene	How clean something is (to stay healthy and stop disease and illness spreading).	oils and spreads Choose unsaturate oils and use in small amounts.	ed	Savijann bin bind	in small amounts.
nutrition	Food needed to live.		suissond	savijpnna,	
pulse	The beating of the heart that can be felt in your neck and wrist.	To stop illness and keep ourselves clea	•	g, we must be hygier	0

To look at all the planning resources linked to the Animals Including Humans unit, click here.





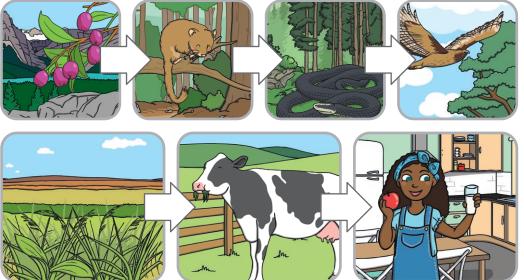
Living Things and Their Habitats

Key Vocabular	J .
life processes	These are the things that all living things do. They move, breathe, sense, grow, make babies, get rid of waste and get their energy from food.
living	Things that are living have all the life processes .
dead	Things that are dead were once living . They did have all the life processes but don't now.
never living	Things made out of metal, plastic or rock were never living . They never had the life processes .
food chain	A food chain shows how each animal gets its food. Food chains are one of the ways that living things depend on each other to stay alive.
food sources	This is the place a living thing's food comes from.

Key Knowledge



Food chains. The arrows mean 'is eaten by'.





To look at all the planning resources linked to the Living Things and Their Habitats unit, click here.





Living Things and Their Habitats

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Key Vocabuları	J	Key
habitat	A habitat is the natural place something lives. A habitat provides living things with everything they need to survive such as food, shelter and water.	Exa
microhabitat	A microhabitat is a very small habitat in places like under a rock, under leaves or on a branch. Minibeasts live in microhabitats . The microhabitats have everything they need to survive .	
depend	Many living things in a habitat depend on each other. This means they need each other for different things.	
survive	This means to stay alive.	

Examples of microhabitats:





Key Knowledge

inside rotting wood

Examples of habitats:

