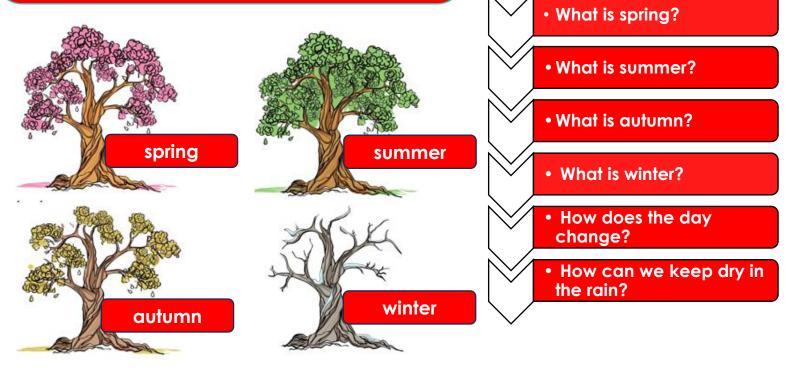
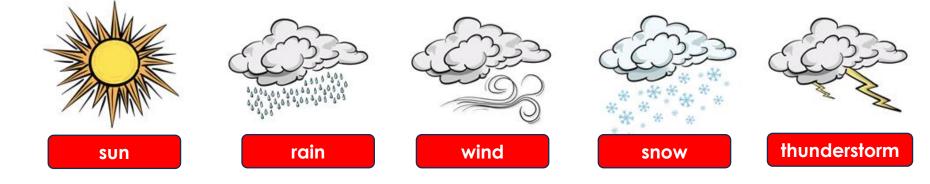
Vocabulary			
Key Word	Definition		
spring	The season in which plants begin to grow		
summer	The warmest season of the year		
autumn	The season in which some trees lose their leaves		
winter	The coldest season of the year		
rain	When water falls from the cloud		
sun	the bright sphere in the sky that provide light and warmth		
change	When something is different		

## Science Knowledge Organiser Seasonal Changes – Throughout Year 1 Strand: Physics



**Key Questions** 

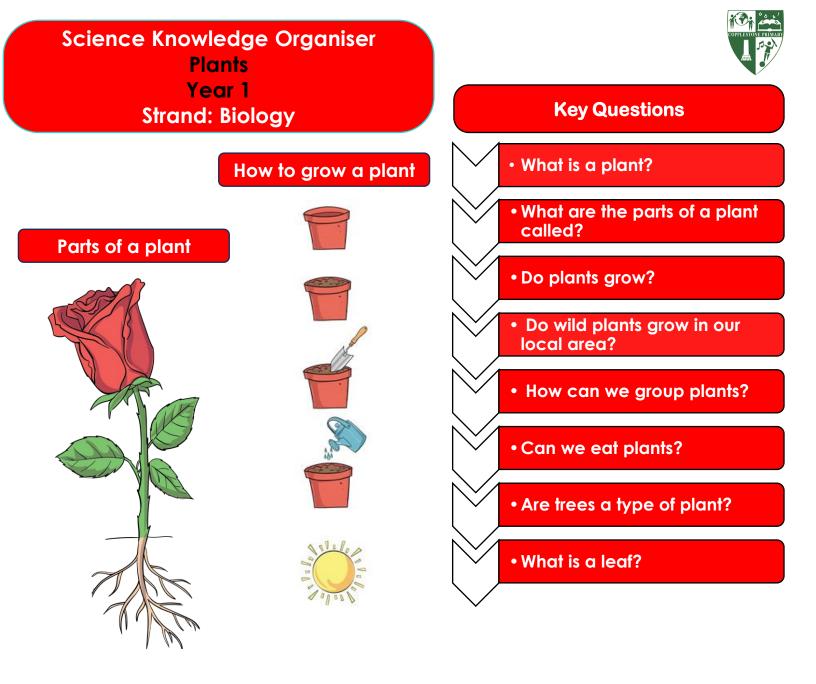




Vocabulary		Science Knowledge Organiser Animals including Humans Year 1		COPPLEXIONE PRIMARY	
Key Word	Definition		Strand: Biology		
amphibian	an animal that is born in water but later develops lungs and lives on land	Fish Fish live in <b>water</b> and have <b>gills,</b> scales and fins on their body.	Grouping animals Birds Birds have feathers, beaks and wings. Most birds can fly.	<b>Mammals</b> Mammals have <b>fur or hair.</b> They drink <b>milk</b> from their mother when they are young.	
animal	a living thing	<b>%).</b> 🚑 🖉		ai 💡 🐆	Key Questions
carnivore	an animal that just eats meat	Amphibians are born in	water but then develo Reptiles are cold-b	ptiles looded animals with t live on land.	
herbivore	an animal that just eats plants				What is this animal?
omnivore	an animal that eats both plants and meat	<b>Carnivores</b> Carnivores just eat <b>other animals</b> (meat).	Nutrition Herbivores Herbivores just eat plants.	Omnivores Omnivores eat both <b>plants and meat.</b>	• How are animals different?
mammal	an animal with fur or hair that feeds on milk from its mother when they are young				• Do all animals eat the same thing?
reptile	an animal with scales that is cold- blooded and lives on land	We can see.	Our senses	We can <b>touch</b> .	• What are our body parts called?
fish	an animal that lives in the water that has scales, fins and gills	We see with our		We touch with our	• What are senses?
bird	an animal with feathers, a beak and wings that can usually fly			an <b>taste.</b> e with our	• Are all humans the same?
					Sume :

	Vocabulary	E	e Knowledge Org veryday Material Year 1	S	COPPLESTONE PRIMARY
Key Word	Definition		Strand: Chemistry		
waterproof	keeps water out	Plastic We can make toys and food	Rubber We can make wellington boots, car	Paper We can make wrapping paper and	
fabric	cloth made by knitting or weaving fibres	packaging from plastic because it is smooth and strong, it canbe hard or bendv.	tyres and bouncy balls from rubber because it is squashy and waterproof. You can bend it.	books from paper because it is smooth. It can tear easily.	Key Questions
object	a thing that can be seen or touched				
hard	solid or firm, not easily broken	Rock	Fabric	Brick	What are materials?
Soft	easy to mould, cut, fold or change shape	We can make <b>tiles</b> and some <b>jewellery</b> from rock because it can be <b>hard.</b> Some rock can also be	We can make clothes and bedding from fabric because it is soft. It is usually smooth.	We can make <b>buildings</b> from brick because it is very <b>hard.</b> It can be rough.	How are materials different?
rough	having an uneven surface.	fraeile.			• What are objects made of?
fragile	easily broken or damaged				• How can we sort materials?
smooth	having an even surface	Wood We can make <b>tables, chairs</b> and some	Metal We can make cars, spoons and some	Glass We can make windows, mirrors and	Which materials would
material	the substance used to make something	toys from wood because it is hard. It can be rough or smooth.	musical instruments frommetal because it is hard and smooth. You can't see through it.	<b>glasses</b> from glass because it hard and see-through. It is verv <b>fragile.</b>	be best for an umbrella?
		T			• Which materials would be best for curtains?

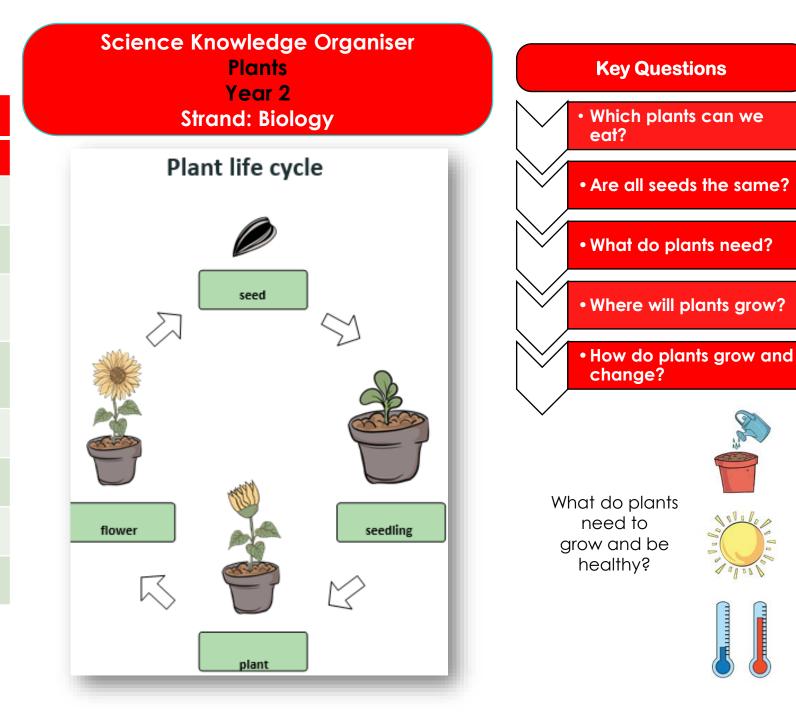
Vocabulary		
Key Word	Definition	
plant	a living organism	
tree	a woody plant	
deciduous	a tree that loses its leaves annually	
evergreen	a tree that does not lose its leaves	
flower	the seed bearing part of a plant that is usually surrounded by brightly coloured petals	
roots	the part of the plant that attaches into the ground for support and nutrient collection	
stem	the main stalk of a plant	
leaf	part of a plant that is typically flat and hangs off the stem	
deciduous evergreen		





## Vocabulary

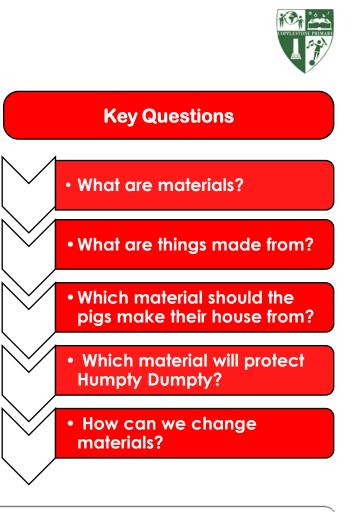
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stem	The main stalk of a plant
leaf	Part of a plant that is typically flat and hangs off the stem
seed	A small part of a plant that can grow another plant
bulb	A fleshy base of a plant that can grow another plant

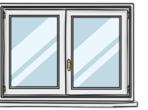


	Vocabulary	Science Knowledge Organiser	
Key Word	Definition	Animals including humans Year 2	
basic needs	the humans need to survive	Strand: Biology	
diet	the food we eat	How can we look after ourselves?	Key Questions
exercise	moving our bodies	We can <b>exercise regularly</b> , eat <b>a healthy diet</b> and make sure we have <b>good hygiene</b> .	• What do humans need?
hygiene	keeping clean		What are offspring?
illness	when we do not feel well		How do animals change as
medicine	something we might take to feel better	mammals	they grow into adults?
offspring	the babies of an animal		• Do we all grow the same?
survive	to live	The life cycle of a butterfly amphibians	• Do we need to exercise?
H	ow humans change	egg caterpillar fish	• What is a healthy diet?
		birds	• Why do we need to have good hygiene?
		butterfly chrysalis	• How can we feel better when we are ill?
baby c	child teenager adult senior	reptiles	We dre in:

Vocabulary			
Key Word	Definition		
material	the substance used to make something		
fabric	cloth made by knitting or weaving fibres		
object	a thing that can be seen or touched		
fragile	easily broken or damaged		
bend	to make a curved shape		
stretch	to make longer		
flexible	easily bent without breaking		
rigid	difficult to bend		
twist	to turn an object in opposite directions so parts turn away from each other		

Science Knowledge Organiser **Materials** Year 2 Strand: Chemistry We can change the shape of 4 some objects by ---squashing them bending them twisti 





This is **a window.** Windows are made from **glass.** Glass is see-through which makes it a good material for the window as it lets **light** into your house and allows you to see out. The glass also stops **rain** and wind entering your **house**.



This is a pair of **wellington boots.** They are made from **rubber.** 

Rubber is **strong, waterproof** and **bendy** which makes it a good material for wellies. They will be **comfy** on your feet, keep your feet **dry** and not damage easily.

Vocabulary			
Key Word	Definition		
excretion	to dispose of waste		
food chain	a diagram that scientists use to show what different animals eat within a habitat		
offspring	the babies that an animal produces		
Respiration	<ul> <li>taking in gas and giving out another (breathing in humans)</li> </ul>		
sensitivity	using your senses (see, smell, hear, touch, taste)		
habitat	where a living thing lives		
diet	the food that an animal eats		

## Food chains

Sometimes, scientists use food chains to show what different animals eat in a habitat. This is a simple food chain:





The arrows mean 'is eaten by'. The grass is eaten by the rabbit. The rabbit is eaten by the fox. Science Knowledge Organiser Living things and their habitats Year 2 Strand: Biology

## **Key Vocabulary**

Movement

Respiration

Sensitivity

Reproduce

Excretion

Nutrition

Growth

There are seven things that all **living** things do, we call these life processes. All animals, including humans, do these and plants do too! We can remember them with the help of Mrs Gren!



**Key Questions** • Is it living, dead or never been alive? • What is a microhabitat? • How are habitats different around the world? What conditions to woodlice prefer? • How are living things adapted to their habitat? • What is a food chain? Habitats A habitat is where a living thing lives. Habitats provide things that living things need for the life processes such as food, water and air. **Examples of large** Examples of micro-habitats: habitats: flower beds desert mountains bushes polar regions under rocks/logs jungle ocean ponds

trees