

Vocabulary

Key Word	Definition
waterproof	keeps water out
fabric	cloth made by knitting or weaving fibres
object	a thing that can be seen or touched
hard	solid or firm, not easily broken
Soft	easy to mould, cut, fold or change shape
rough	having an uneven surface.
fragile	easily broken or damaged
smooth	having an even surface
material	the substance used to make something

Knowledge Organiser Everyday Materials Strand: Chemistry

Plastic

We can make **toys** and **food packaging** from **plastic** because it is **smooth** and **strong**. It can be **hard** or **heavy**.



Rubber

We can make **wellington boots**, **car tyres** and **bouncy balls** from **rubber** because it is **squashy** and **waterproof**. You can **mend** it.



Paper

We can make **wrapping paper** and **books** from **paper** because it is **smooth**. It can tear easily.



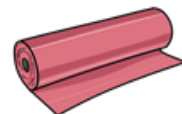
Rock

We can make **tiles** and some **jewellery** from **rock** because it can be **hard**. Some rock can also be **fragile**.



Fabric

We can make **clothes** and **bedding** from **fabric** because it is **soft**. It is usually **smooth**.



Brick

We can make **buildings** from **brick** because it is very **hard**. It can be **rough**.



Wood

We can make **tables**, **chairs** and some **toys** from **wood** because it is **hard**. It can be **rough** or **smooth**.



Metal

We can make **cars**, **spoons** and some **musical instruments** from **metal** because it is **hard** and **smooth**. You can't see through it.



Glass

We can make **windows**, **mirrors** and **glasses** from **glass** because it is **hard** and **see-through**. It is very **fragile**.



Key Questions

• What are materials?

• How are materials different?

• What are objects made of?

• How can we sort materials?

• Which materials would be best for an umbrella?

• Which materials would be best for curtains?

Vocabulary









Key Word	Definition
amphibian	an animal that is born in water but later develops lungs and lives on land
animal	a living thing
carnivore	an animal that just eats meat
herbivore	an animal that just eats plants
omnivore	an animal that eats both plants and meat
mammal	an animal with fur or hair that feeds on milk from its mother when they are young
reptile	an animal with scales that is cold-blooded and lives on land
fish	an animal that lives in the water that has scales, fins and gills
bird	an animal with feathers, a beak and wings that can usually fly

Knowledge Organiser

Animals including Humans 1

Strand: Biology

Grouping animals

<p>Fish Fish live in water and have gills, scales and fins on their body.</p> 	<p>Birds Birds have feathers, beaks and wings. Most birds can fly.</p> 	<p>Mammals Mammals have fur or hair. They drink milk from their mother when they are young.</p> 
<p>Amphibians Amphibians are born in water but then develop lungs and live on land.</p> 	<p>Reptiles Reptiles are cold-blooded animals with scales that live on land.</p> 	
<h4>Nutrition</h4>		
<p>Carnivores Carnivores just eat other animals (meat).</p> 	<p>Herbivores Herbivores just eat plants.</p> 	<p>Omnivores Omnivores eat both plants and meat.</p> 

Our senses

We can **see**.
We see with our



We can **hear**.
We hear with our



We can **touch**.
We touch with our



We can **smell**.
We smell with our



We can **taste**.
We taste with our



Key Questions

• What is this animal?

• How are animals different?

• Do all animals eat the same thing?

• What are our body parts called?

• What are senses?

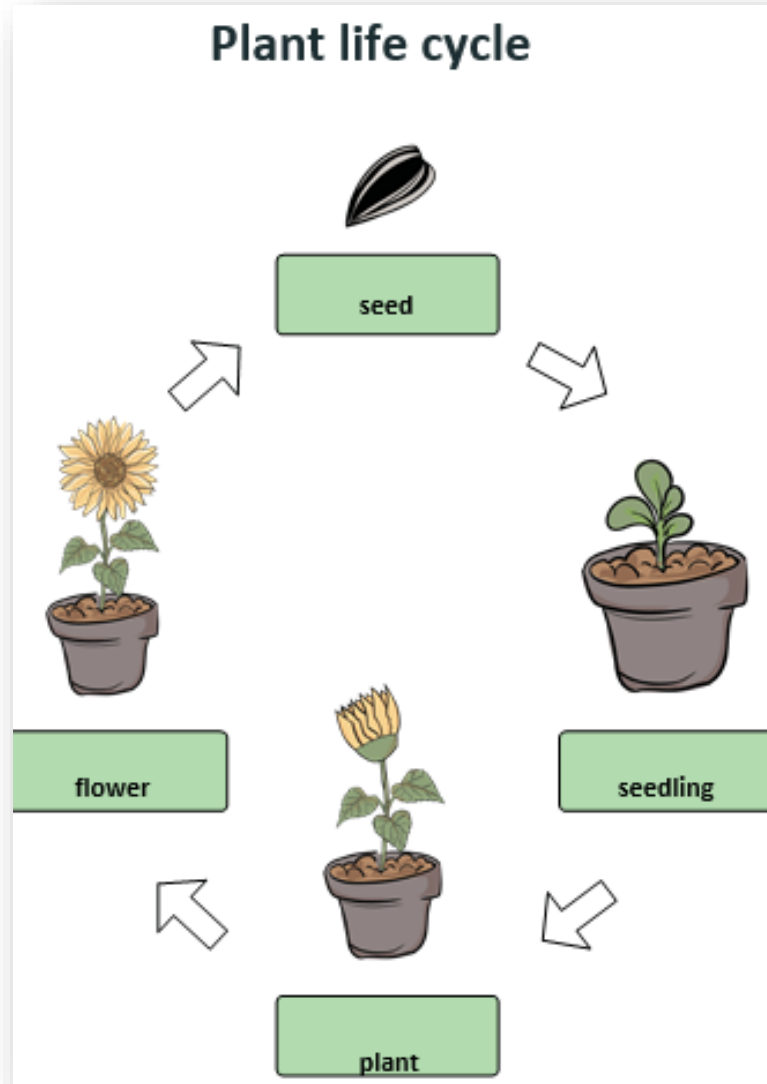
• Are all humans the same?

Knowledge Organiser Plants 2 Strand: Biology

Vocabulary

Key Word	Definition
plant	A living organism
Tree	A woody plant
flower	The seed-bearing part of a plant that is usually surrounded by brightly coloured petals
roots	The part of the plant that attached 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
seed	A small part of a plant that can grow another plant
bulb	A fleshy base of a plant that can grow another plant

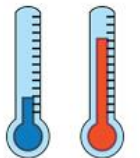
Plant life cycle



Key Questions

- Which plants can we eat?
- Are all seeds the same?
- What do plants need?
- Where will plants grow?
- How do plants grow and change?

What do plants need to grow and be healthy?



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

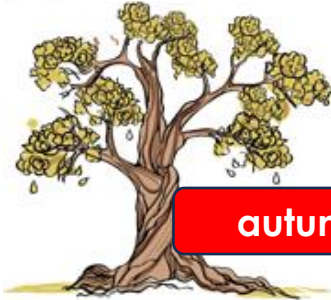
Knowledge Organiser Seasonal Changes Strand: Physics



spring



summer



autumn



winter

Key Questions

• What is spring?

• What is summer?

• What is autumn?

• What is winter?

• How does the day change?

• How can we keep dry in the rain?



sun



rain



wind



snow



thunderstorm