

Scientists	If you would like to find out more...
Tanisha Williams	https://www.plantlovestories.com/post/the-grace-of-growing https://naturesplasticity.weebly.com/about.html
Alice Eastwood	https://tinybeans.com/women-scientists-to-teach-your-kids-about/slide/1
Carl Linnaeus	https://kids.kiddle.co/Carl_Linnaeus https://study.com/academy/lesson/carl-linnaeus-lesson-for-kids.html
George Carver Washington	https://www.plantsnap.com/blog/the-5-most-famous-botanists-in-history/

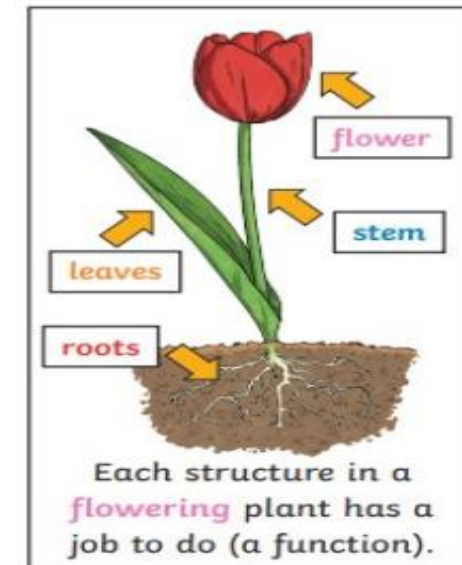
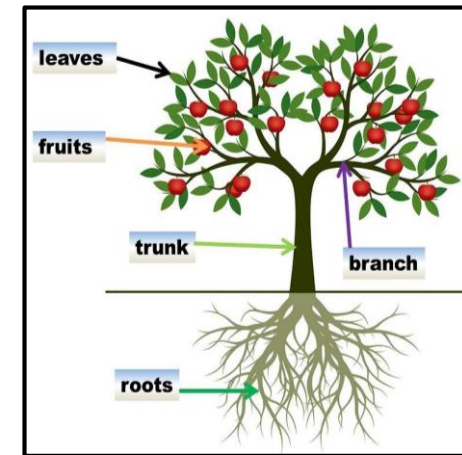
Sticky Knowledge

Plants needs water, light and warmth to grow

Seeds and bulbs need water to grow but most do not need light; seeds and bulbs have a store of food inside them.

Plants and trees are similar but a tree has a trunk and a plant has a stem

The roots anchor the plant and tree in the ground and absorb water to help it grow



Subject: Science

Concept: Biology Topic: Plants Y1/2

Online Activities (videos, games, facts and activities)

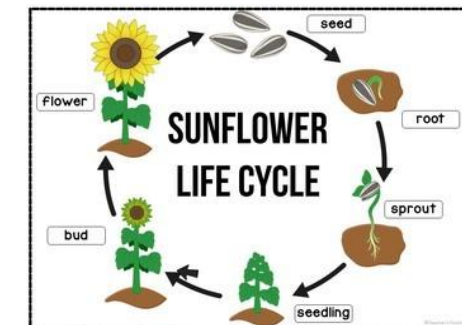
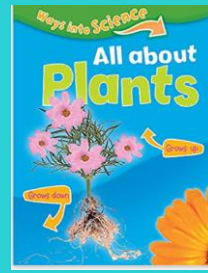
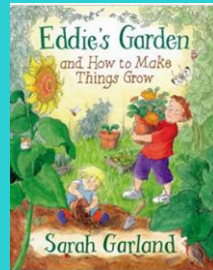
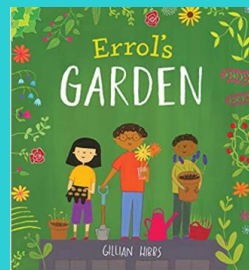
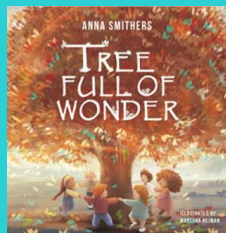
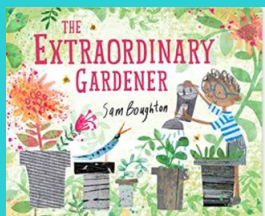
<https://www.bbc.co.uk/bitesize/topics/zpxnyrd>

<https://www.sciencekids.co.nz/plants.html>

Activities you could do at home

- Visit a garden centre, the Botanical Gardens or a local park to look at the plants
- Help your grown ups in the garden at home
- Make a cress head person in an egg shell

Books you may like to read



Scientists	If you would like to find out more...
Jane Goodall	https://www.youtube.com/watch?v=5PwcY_axJwA https://www.youtube.com/watch?v=OI8p3uk7z74
Charles Linnaeus	https://study.com/academy/lesson/carl-linnaeus-lesson-for-kids.html
Bindi Irwin	https://kids.kiddle.co/Bindi_Irwin
David Attenborough	https://kids.kiddle.co/David_Attenborough

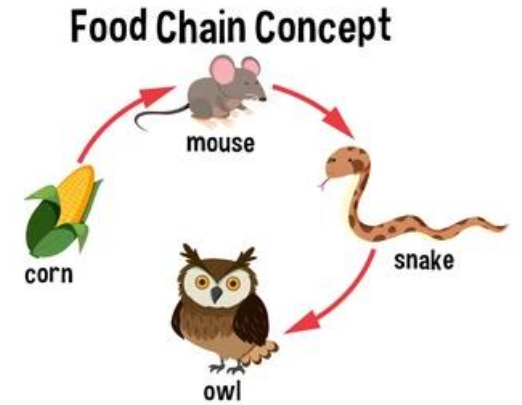
Sticky Knowledge

An omnivore is an animal that eats plants and animal
 A herbivore is an animal that only eats plants
 A carnivore is an animal that only eats other animals

Habitats are the places where plants and animals live

A food chain shows how energy is passed between plants and animals.

All food chains include a producer



Subject: Science Concept: Biology Topic: Living Things



Online Activities (videos, games, facts and activities)
<https://www.educationquizzes.com/ks1/science/living-things-living-non-living-or-dead/>
<https://www.bbc.co.uk/games/embed/earth-squad-go>
<https://switchzoo.com/games/pleasedofeedtheanimals.htm>

Activities you could do at home
 Visit a pet shop, a local farm such as Graves Park or
 Visit the Butterfly House or Yorkshire Wildlife Park
 Research your favourite animal and make a fact file
 Explore the garden and see if you can find some different habitats



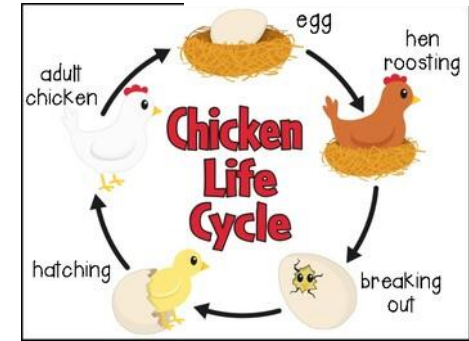
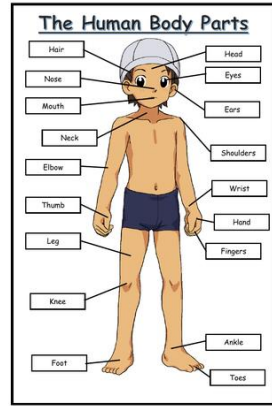
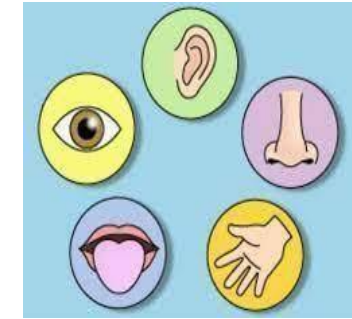
Books you may like to read

CARNIVOROUS	HERBIVOROUS	OMNIVOROUS
Tiger	Cuttlefish	Rhinoceros
Deer	Hedgehog	Boar
Platypus	Anteater	Skunk
Parrot	Koala	Monkey
Shark	Lion	Hippopotamus
Giraffe	Kiwi	Bear
Walrus	Penguin	Kangaroo
Elephant	Turtle	Ostrich

Scientists	If you would like to find out more...
Dr Chris & Dr Xand	https://opouch.co.uk/meet-the-doctors/
Chris Packham	https://www.biogs.com/chris-packham
Charles Darwin	https://kids.kiddle.co/Charles_Darwin
Dr. Krithi Karanth	https://greenglobaltravel.com/wildlife-conservationists-animal-rights-activists/#DR.%20KRITHI%20KARANTH

Sticky Knowledge

- The basic needs for survival for animals including humans are water, food and air.
- Animals can be divided into five distinct groups: mammals, fish, birds, reptiles, and amphibians.
- Animals have offspring that grow into adults
- Humans have five senses: smell, taste, sight, hearing & touch
- Humans need a healthy diet, good hygiene and they need to exercise to stay healthy



Subject: Science Concept: Biology Topic: Animals

Online Activities (videos, games, facts and activities)

<http://www.crickweb.co.uk/ks1science.html>

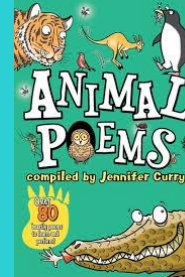
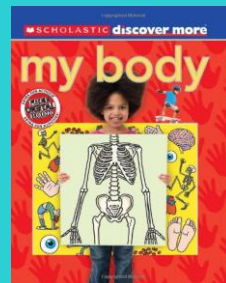
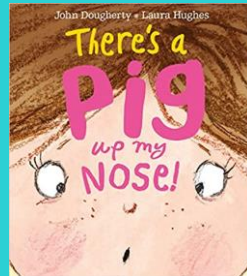
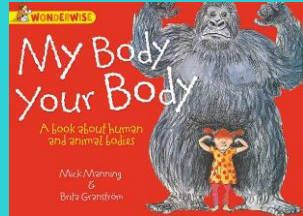
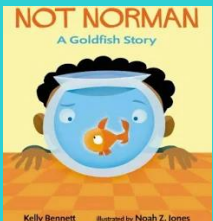
<https://stormedapps.co.uk/lifestages/lifestages.html>


<https://animals.sandiegozoo.org/animals>

Activities you could do at home

- Sense investigations like these
<https://kidshealth.org/en/kids/experiment-main.html>
- Visit a pet shop, local farm, Yorkshire Wildlife Park or the Butterfly House
- Sing 'Heads, Shoulders, Knees & Toes!'

Books you may like to read

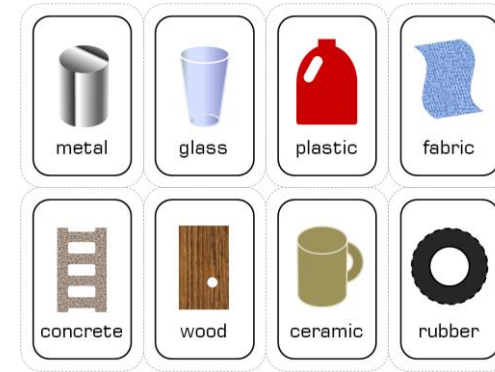


	Animal type	Characteristics	Examples
	Amphibians	<ul style="list-style-type: none"> • Cold-blooded • Live both in water and on land • Have three life stages: eggs, larvae and adult 	Frogs, toads, salamanders
	Birds	<ul style="list-style-type: none"> • Warm-blooded • Lay eggs • Have feathers, powerful wings and hollow bones • Most birds can fly 	Robins, blackbirds, pigeons, owls, swans, ducks, penguins, parrots, flamingos
	Fish	<ul style="list-style-type: none"> • Cold-blooded • Live in water • Breathe by filtering the oxygen in water through gills • Have fins and scales 	Sharks, skates and rays, salmon, cod, rabbitfish, carp, goldfish
	Mammals	<ul style="list-style-type: none"> • Warm-blooded creatures • Produce milk to feed their offspring • Have hair • Give birth to live young 	Humans, monkeys, dogs, cows, cats, zebras, elephants, tigers, lions, sheep, goats
	Reptiles	<ul style="list-style-type: none"> • Cold-blooded • Lay eggs • Covered with scales / horny plates • Breathe through lungs 	Geckos, lizards, alligators, snakes, crocodiles, tortoises

Scientists	If you would like to find out more...
Charles Macintosh	https://www.youtube.com/watch?v=5fcCo0G3Z_w
John Boyd Dunlop	https://primaryfacts.com/8429/john-boyd-dunlop-facts-and-information/
Ayla Hutchinson	https://www.amightygirl.com/blog?p=12223
Marion Donovan	https://www.amightygirl.com/blog?p=12223

Sticky Knowledge

- Objects are made from materials
- There are lots of different materials such as wood, metal, plastic, glass, brick, rock, paper and cardboard for
- Different materials have different properties
- Objects are made from different materials because of their different properties
- Some materials can be changed by squashing, bending, twisting and stretching.



Subject: Science

Concept: Chemistry

Topic: Materials

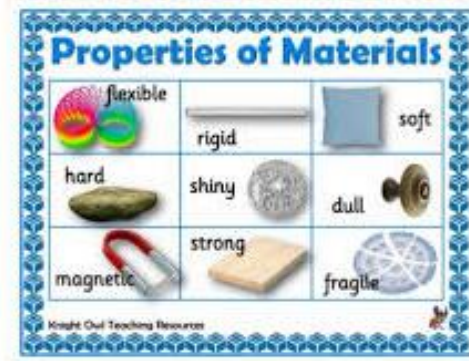
Online Activities (videos, games, facts and activities)

<https://wowscience.co.uk/resource/material-properties/>

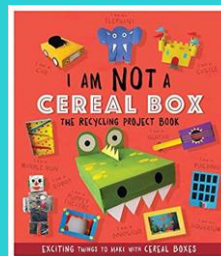
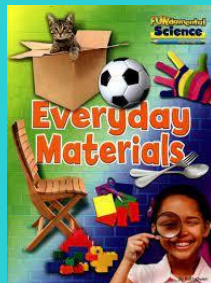
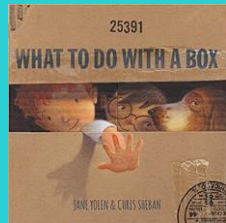
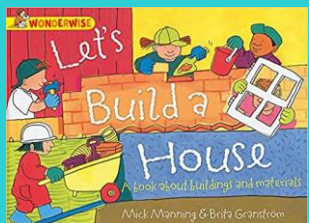
<https://www.education.com/game/sorting-objects-materials/>

Activities you could do at home

- Go on a materials hunt around the house and garden
- Can you sort the materials into groups?
- Make playdough. You can find a recipe here: <https://www.bbcgoodfood.com/howto/guide/playdough-recipe>



Books you may like to read



Squashing, Bending, Twisting and Stretching



Squash an object by pushing both hands together.



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



Twist an object by turning your hands in opposite directions.

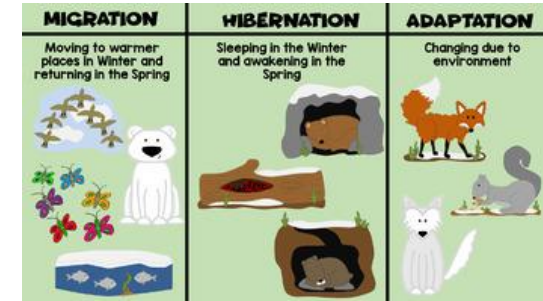


Stretch an object by pulling your hands slowly and gently apart.

Scientists	If you would like to find out more...
Brian Cox	https://wiki.kidzsearch.com/wiki/Brian_Cox_(physicist)
Maggie Aderin-Pocock	https://www.bbc.co.uk/teach/class-clips-video/pshe-ks2--ks3-space-scientist/zvwxnrd
Helen Sharman	https://kids.kiddle.co/Helen_Sharman
Patrick Moore	http://academickids.com/encyclopedia/index.php/Patrick_Moore

Sticky Knowledge:

- There are four seasons: Spring, Summer, Autumn and Winter
- Animals behave in different ways in each season
- The length of day is longer in the summer and shorter in the winter this is because the Earth is tilted towards the sun in summer and away from the sun in winter.
- We have seasons because of the Earth moving around the sun



Subject: Science Concept: Physics Topic: Seasons A

Online Activities (videos, games, facts and activities)

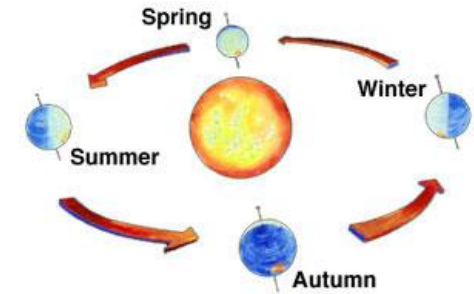
<https://www.turtlediary.com/game/match-the-months-with-the-seasons.html>

<https://www.youtube.com/watch?v=6pznr7PnT1A>

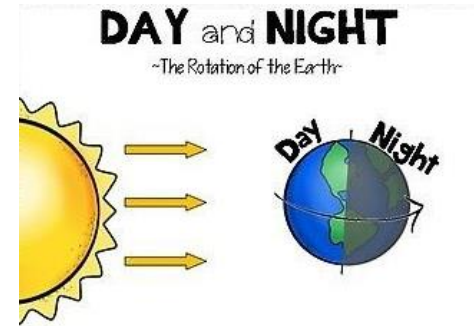
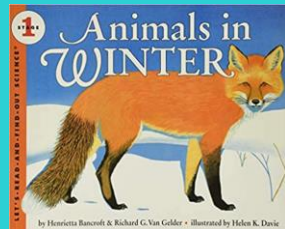
<https://pbskids.org/sesame/games/seasons-spinner#>

Activities you could do at home:

- You could track the sunrise and sunset times for a week in each season
- Visit a local farm during Spring to see the newborn animals
- Listen to The Down on Farm podcast in each season
<https://www.bbc.co.uk/programmes/p03sd468>



Books you may like to read



Scientists	If you would like to find out more...
Brian Cox	https://kidskonnnect.com/people/brian-cox/
Helen Sharman	https://spacecentre.co.uk/blog-post/helen-sharman-britains-first-astronaut/
Maggie Aderin-Pocock	https://www.bbc.co.uk/teach/class-clips-video/pshe-ks2--ks3-space-scientist/zvwxnrd
Patrick Moore	https://kids.kiddle.co/Patrick_Eisdell_Moore

Sticky Knowledge

- There are four seasons: Spring, Summer, Autumn and Winter
- Plants and trees change over the seasons
- The weather in each season is different
- The temperature is warmer in the summer and colder in the winter this is because the Earth is tilted towards the sun in summer and away from the sun in winter
- We wear different clothes and take part in different activities in each season as the weather is different



Subject: Science Concept: Physics Topic: Seasons B

Online Activities (videos, games, facts and activities)

<https://www.tinytap.com/activities/gqw6/play/the-four-seasons-quiz#>

<https://wordwall.net/resource/4991294/seasons/seasons-guessing-game>

Activities you could do at home:

- Make a weather chart and track the weather each day
- Go on a season walk and spot the changes in the local environment
- Collect leaves from the same tree in each season and create a leaf wheel chart

Books you may like to read

