Science	e - Autumn Term 1
Animals including humans	
Why are plants at the start of every food chain?	Answer
How do plants make their own food?	Answer
Name 5 groups of food. Why are they important?	Answer
What is a meant by the saying a 'healthy plate'?	Answer
Give three reasons why we need to have a skeleton.	Answer
Why do we need muscles and how can we make them stronger?	Answer

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Animals can be split into different groups (e.g. birds/fish & carnivores/omnivores)

water, food, shelter, oxygen, temperature -All animals have basic needs that have to be met in order for them to survive:

-Animals have different stages in their lives - birth, growth, reproduction and death. Humans (and most other animals) need to stay healthy, by exercising, eating a balanced diet, and being hygienic

## Nourishment



-Unlike plants, animals cannot create their own food. They get nutrition from what they eat.

chlorophyll, or chloroplasts in their cells, like -This is because animals do not have plants do. -Therefore, plants are called producers and animals are called consumers.

depends on their diet. For example, a cheetah gets lots of protein in its diet because it is a camivore (eats meat). -The different nutrients that animals get

# Skeletons and Muscles

Sheleton

ones called a skeleton.

Muscular System



animals) also have a <u>system</u> Humans (and many other of muscles in their bodies

they contract, muscles move muscles is for movement. As The main purpose of parts of the body around.

for maintaining posture, helping humans/ animals to Muscles are also important sit, stand, and walk.

Some muscles (e.g. the heart) move by themselves they are involuntary.

## -Carbohydrate-rich foods include pasta, rice, oats, breads, breakfast cereals and barley. Foods that have lots of carbohydrates in are often called 'starchy' foods Carbohydrates give the consumer energy. Carbohydrates

**Types of Nutrition** 



-Protein-rich foods include meat, eggs & nuts.

Fibre helps our <u>digestive</u> systems to work well.

 Fibre is often found in high-carboydrate foods like bread, cereal, potatoes, and some fruits.

-Butter, cakes & fast food contain lots of fat. Vitamins and Minerals -There are many different

sones.

Muscles are attached to

-Skeletons are also

However, too much fat is not healthy!

-Fats also give consumers lots of energy.

Fruit and vegetables are vitamin/mineral-rich.

perform hundreds of roles in the body.

vitamins and minerals that

protect the heart and lungs.

protect important parts of -Finally, skeletons help to

the body. E.g. the ribs

15kg per day

Deer 4kg per day

0.004kg per day

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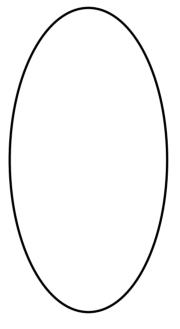
Amounts of Nutrition

3,500kg per day

Ryefield Year 3 Science Inners.indd 2

National curriculum	Animals, including humans: healthy body
Year 2	notice that animals, including humans, have offspring which grow into adults
Year 2	find out about and describe the basic needs of animals, including humans, for survival (water, food and air)
Year 2	describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene
Year 3	identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat
Year 3	identify that humans and some other animals have skeletons and muscles for support, protection and movement

Ryefield Year 3 Science Inners.indd 3 17/09/2021 10:05:24



Before starting the topic, add what you already know.

Ryefield Year 3 Science Inners.indd 4 17/09/2021 10:05:24

What is th	is picture telling me?
A	B F
Why are plants at the start of every food chain?	Answer
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What is a meant by the saying a 'healthy plate'?	Answer
Give three reasons why we need to have a skeleton.	Answer
Why do we need muscles and how can we make them stronger?	Answer

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Show what you know.  Recall two things on the topic.	Connect - can you link this to one more thing that you know.

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Show what you know.  Recall two things on the topic.	Connect - can you link this to one more thing that you know.
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Ryefield Year 3 Science Inners.indd 13 17/09/2021 10:05:26

Science - Autumn Term 2		
Light		
Can you name some sources of light?	Answer	
Is the moon a light source?	Answer	
Which colour coat would be safest to wear if you were walking along a road at night?	Answer	
Why is it that only still water can reflect a clear image?	Answer	
Name some objects that would make solid shadows.	Answer	
How can you make a shadow larger?	Answer	

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# KNOWLEDGE ORGANISER



## Overview



-Light is a form of energy that makes it possible to see.

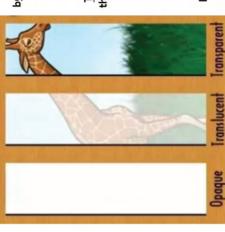
example the Sun). Darkness is when there Light is given off some objects (for is no light.

-Light can reflect off surfaces (e.g. mirrors)

translucent, or opaque, depending on the -Objects can be labelled as transparent, amount of light that they let through.

-Shadows are formed when light is blocked by an opaque object.

# Transparent, Translucent and Opaque



by the object, reflect (bounce off) the object, or When light hits an object, it can be absorbed (transmit) pass through an object.

Transparent – Transparent objects allow all of the light to pass through them. This means that The three key terms below tell us how much light objects let through them. we can clearly see through them. <u> Translucent</u> – Translucent objects only allow some light to pass through them. This means that we can partially see through them. Opaque – Opaque objects do not allow any light to pass through them. This means cannot see through them at all.

-When light hits an object, it may

Absorption

Light - Key Terms

be absorbed into the object.

# **Protection from Light**

Some types of light (e.g. light from the sun) can be dangerous for our eyes and skin. This is because they contain UV rays that can cause damage. There are several things that we can do to protect ourselves in the sun.



-Light can also be transmitted through

-Light may also reflect off the surface

of an object.

-This means that light bounces off the object,

sending it in another direction.

certain objects.

-Some examples of materials/objects that absorb

-At nighttime, the sky is darker because there is a

lack of light from the sun.

Reflection

-Human vision is unable to see colours when there

is high levels of darkness (too little light)

-Darkness is the absence of light. In

other words, where there is no light, it is dark!

light include wood, brick and stone.

Transmission

-This means that it doesn't bounce off or pass

through the object.

-Some examples of materials/objects that transmit

light include windows and clean water.

-This means that it passes through the object. It can be seen from the other side of the object.

1. Wearing sunglasses - Sunglasses reduce the reaches our eyes. amount of light (and also the UV rays) that

2. Covering up - Clothes can help to block some of the UV rays that can damage our skin.

3. Sun cream - This stops our skin from absorbing as many UV rays, protecting it from harm.

## Transparent Objects

-Some examples of materials/objects that reflect light include mirrors or polished metal surfaces.

**Translucent Objects** 

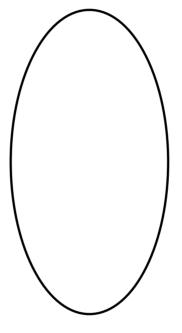
## Opaque Objects

Brick Sofa Table Plastic Milk Carton Flower Petals Tracing Paper Frosted Glass Air Water Windows

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National curriculum	Light and shadows
Year 3	recognise that they need light in order to see things and that the dark is the absence of light
Year 3	notice that light is reflected from surfaces
Year 3	recognise that light from the sun can be dangerous and that there are ways to protect their eyes
Year 3	recognise that shadows are formed when the light from a light source is blocked by a solid object
Year 3	find patterns in the way that the size of shadows changes

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Before starting the topic, add what you already know.

Ryefield Year 3 Science Inners.indd 17 17/09/2021 10:05:27

### What is this picture telling me?



Can you name some sources of light?	Answer
Is the moon a light source?	Answer
Which colour coat would be safest to wear if you were walking along a road at night?	Answer
Why is it that only still water can reflect a clear image?	Answer
Name some objects that would make solid shadows.	Answer
How can you make a shadow larger?	Answer

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Show what you know.  Recall two things on the topic.	Connect - can you link this to one more thing that you know.

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Show what you know.  Recall two things on the topic.	Connect - can you link this to one more thing that you know.

Ryefield Year 3 Science Inners.indd 26 17/09/2021 10:05:27

Science - Spring Term 1		
Rocks and Soil		
What are the three different types of rocks?	Answer	
What does the word metamorphic mean?	Answer	
What is a fossil?	Answer	
What is the name of people who study rocks?	Answer	
What is soil made of?	Answer	
How are rocks formed?	Answer	

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#### **Ryefield Primary School - Science**



#### **Topic: Rocks**

#### Year: 3

#### Science

#### What should I already know?

- The role of Mary Anning in palaeontology and the discovery of fossils.
- Soil contains nutrients and these help plants to grow.
- The meaning of the word absorb.
- That magma is molten rock that is formed in very hot conditions inside the earth.
- Why some materials are used for certain purposes because of their properties

Vocabulary		
absorb	soak up or take in	
bedrock	the solid rock in the ground which supports all the soil above it	
decaying	gradually being destroyed by a natural process	
grain	A <b>grain</b> of something such as sand or salt is a tiny hard piece of it	
igneous	rocks that are formed by volcanic action or intense heat	
imprint	a mark or outline made by the <b>pressure</b> of one object on another	
leaf litter	decaying leaves	
magma	<b>molten</b> rock that is formed in very hot conditions inside the earth	
man-made	things are created by people	
metamorphic	rocks that have had their original structure changed by pressure and heat	
mineral	something that is formed naturally in rocks and in the earth.	
molten	Molten rock, metal, or glass has been heated to a very high temperature and has become a hot, thick liquid	
natural	things that exist in nature and are not made by people	
nutrients	substances that help plants and animals to grow	
palaeontology	the study of <b>fossils</b> as a guide to the history of life on Earth	
permeable	if a substance is permeable, something such as water or gas can pass through it or soak into it.	
porous	Something that is porous has many small holes in it, which water and air can pass through	
prehistoric	the time in history before any information was written down	
preserve	to protect from decay	
pressure	force that you produce when you press hard on something	
properties	the qualities or features that belong to something and make it recognisable	
rock	a solid mass made up of <b>minerals</b> . Rock forms much of the earth's outer layer, including cliffs and mountains	
sediment	solid material that settles at the bottom of a liquid, especially earth and pieces of <b>rock</b> that have been carried along and then left somewhere by water, ice, or wind	
soil	the substance on the <b>surface</b> of the earth in which plants grow	
surface	the flat top part of something or the outside of it	
surrounding	to be present all around	
volcano	a mountain from which hot melted rock, gas, steam, and ash from inside the Earth sometimes burst.	
weathered	affected by the weather	
weathered	affected by the weather	

#### Investigate!

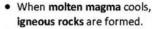
- Explore the types of rocks you can find in the local environment.
- Explain why rocks are used for different purposes based on their properties.
- Research the different living things whose fossils are found.
- Explore the different kinds of soils, including those you can find in the local environment.
- Compare different types of soils by saying what is similar and what is different using scientific vocabulary.
- Investigate what happens when rocks are rubbedtogether.
- Investigate what happens to rocks when they are in water.
- Sort different types of rocks based on how rough or smooth they are, whether they have grains or crystals, how permeable they are, how easily they can break down, how strong they are and what they look like.

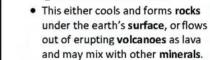
#### What will I know by the end of the unit?

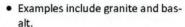
## What are the different types of rocks?

#### There are three types of rocks that are formed naturally.

#### Igneous:







 This type of rock is strong, hardwearing and non-porous.

#### Sedimentary:



- Sometimes, little pieces of rocks that have been weathered can be found at the bottom of lakes, seas and rivers This is called sediment.
- Over millions of years, layers of this sediment builds up forming sedimentary rocks.
- Examples include limestone and chalk.
- Sedimentary rocks are porous and can easily be worn down.

#### Metamorphic:

- When some igneous and sedimentary rocks are heated and squeezed (pressured), they form metamorphic rocks.
- Examples include slate and marble.
- Metamorphic rocks are strong

Bricks and concrete are not **rocks** because they are **man-made**.

#### What are fossils?

- Fossils are the remains of prehistoric

  life
- They are usually formed when a living thing (plant or animal) dies and the body is covered up or buried by sediment over tens of thousands of years.
- Some fossils are formed when the tough bones and teeth in animals, and the woody part of plants are preserved.
- Other fossils are made from imprints in surrounding sedimentary rock such as footprints or imprints from shells.
- Fossils tell us about the Earth and about life that existed hundreds of thousands and millions of years ago.

#### What is soil?

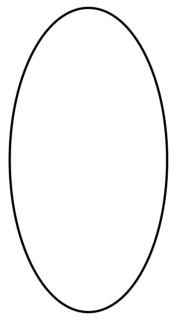


- Soil is made from pieces of rock, minerals, decaying plants and water.
- When rock is broken down into small grains, soil is formed.
- There are layers of soil:
  - above the soil is leaf litter and recently decaying plants.
  - as the soil becomes deeper, the rock grains become larger until bedrock is reached.

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National curriculum	Materials: rocks
Year 3	compare and group together different kinds of rocks on the basis of their appearance and simple physical properties
Year 3	describe in simple terms how fossils are formed when things that have lived are trapped within rock
Year 3	recognise that soils are made from rocks and organic matter

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Before starting the topic, add what you already know.

Ryefield Year 3 Science Inners.indd 30 17/09/2021 10:05:28

### What is this picture telling me?



What are the three different types of rocks?	Answer
What does the word metamorphic mean?	Answer
What is a fossil?	Answer
What is the name of people who study rocks?	Answer
What is soil made of?	Answer
How are rocks formed?	Answer

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Show what you know.  Recall two things on the topic.	Connect - can you link this to one more thing that you know.

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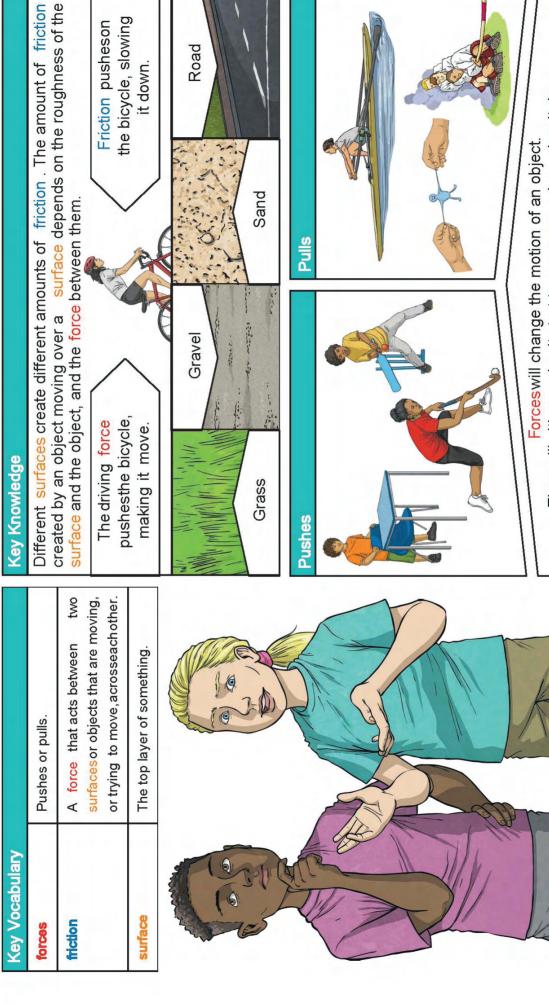
Show what you know.  Recall two things on the topic.	Connect - can you link this to one more thing that you know.

Ryefield Year 3 Science Inners.indd 39 17/09/2021 10:05:29

Science	e - Spring Term 2
Force	es and Magnets
What is a force?	Answer
Are all metals attracted to magnets? Give examples.	Answer
What happens when 2 magnets repel?	Answer
Does every force need contact with an object? If not, which forces don't need contact?	Answer

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## Forces and



Forceswill change the motion of an object.

They will either make it start to move, speed up, slow it down or even make it stop.

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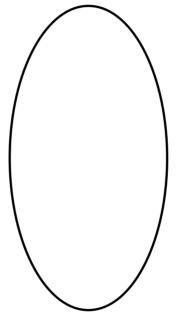
# Forces and

Key Vocabulary		Key Knowledge	
magnet	An object which produces a magnetic force that pulls certain objects towards it.	Like poles repel.	es repel.
magnetic	Objects which are attracted to a magnet are magnetic. Objects containing iron, nickel or cobalt metals are magnetic.	A magnetic field is invisible.	les attract.
magnetic field	The area around a magnet where there is a magnetic force which will pull magnetic objects towards the magnet.	Youcan see the magnetic field here though. This is what happens when iron filings are placedon top of a pieceof paper with a magnet underneath.	The needle in a compass is a magnet. A compass always points north -south on Earth.
solog	North and south polesare found at different ends of a magnet.	Magnetic ✓	Non-magneti cX
repel	Repulsion is a force that pushes objects away. For example, when a north pole is placed near the north pole of another magnet, the two poles repel (push away from each other).		
attract	Attraction is a force that pulls objects together. For example, when a north pole is placed nearthe south pole of another magnet, the two polesattract (pull together).	These objects contain iron, nickel or cobalt. Not all metals are magnetic.	These objects do not contain iron, nickel or cobalt.

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National curriculum	Forces and magnets
Year 3	compare how things move on different surfaces
Year 3	notice that some forces need contact between two objects, but magnetic forces can act at a distance
Year 3	observe how magnets attract or repel each other and attract some materials and not others
Year 3	compare and group together a variety of everyday materials on the basis on whether they are attracted to a magnet, and identify some magnetic materials
Year 3	describe magnets as having two poles
Year 3	predict whether two magnets will attract or repel each other, depending on which poles are facing

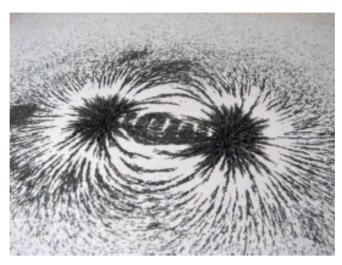
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Before starting the topic, add what you already know.

Ryefield Year 3 Science Inners.indd 44 17/09/2021 10:05:30

#### What is this picture telling me?



What is a force?	Answer
Are all metals attracted to magnets? Give examples.	Answer
What happens when 2 magnets repel?	Answer
Does every force need contact with an object? If not, which forces don't need contact?	Answer

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Show what you know.  Recall two things on the topic.	Connect - can you link this to one more thing that you know.
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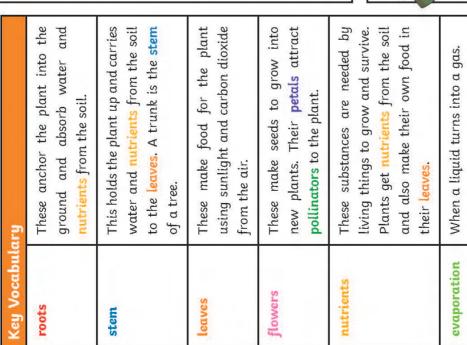
Rec	Show what you know. all two things on the topic.	Connect - can you link this to one more thing that you know.

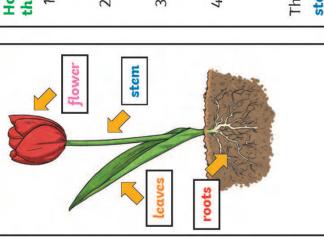
Ryefield Year 3 Science Inners.indd 53 17/09/2021 10:05:31

Science	- Summer Term 1
	Plants
What do plants need to become strong and healthy?	Answer
What parts of a plant do we eat?	Answer
What are the different methods of seed dispersal?	Answer
What is the important role a bee plays in a plant's life?	Answer
How do plants obtain water?	Answer
What would happen if all the plants on Earth suddenly died?	Answer

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## Plants



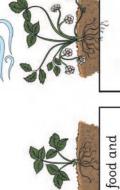


## How Water Moves through a Plant

- water from the soil. 1. The roots absorb
- The stem transports water to the leaves. 7
- Water evaporates from the leaves. 3
- causes more water to be sucked up the stem. 4. This evaporation

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





What Does a Plant Need to Grow?





from the soil

nutrients

light

water

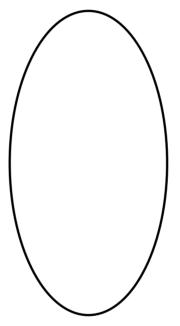
room to grow

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.

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National curriculum	Plants: roots and shoots
Year 2	observe and describe how seeds and bulbs grow into mature plants
Year 2	find out and describe how plants need water, light and a suitable temperature to grow and stay healthy
Year 3	identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers
Year 3	explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant
Year 3	investigate the way in which water is transported within plants
Year 3	explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal

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Before starting the topic, add what you already know.

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### What is this picture telling me?



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Show what you know.  Recall two things on the topic.	Connect - can you link this to one more thing that you know.

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Show what you know.  Recall two things on the topic.	Connect - can you link this to one more thing that you know.
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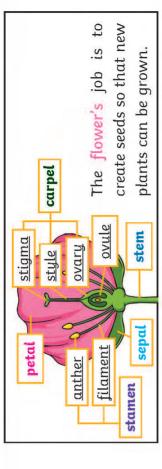
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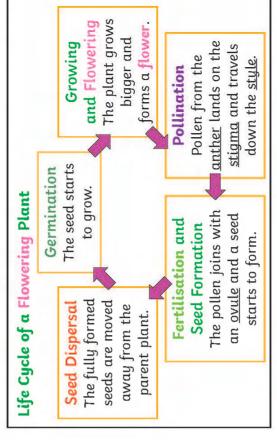
Science	- Summer Term 2
Pollin	ation and Seeds
What do plants need to become strong and healthy?	Answer
What parts of a plant do we eat?	Answer
What are the different methods of seed dispersal?	Answer
What is the important role a bee plays in a plant's life?	Answer
How do plants obtain water?	Answer
What would happen if all the plants on Earth suddenly died?	Answer

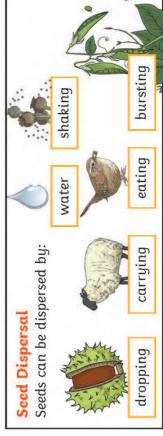
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Year 3

Key Vocabulary	ry
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.



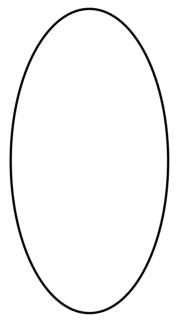




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National curriculum	Plants: flowers and fruits
Year 2	observe and describe how seeds and bulbs row into mature plants
Year 2	find out and describe how plants need water, light and a suitable temperature to grow and stay healthy
Year 3	identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers
Year 3	explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant
Year 3	investigate the way in which water is transported within plants
Year 3	explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal

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Before starting the topic, add what you already know.

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### What is this picture telling me?



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Show what you know.  Recall two things on the topic.	Connect - can you link this to one more thing that you know.

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Show what you know.  Recall two things on the topic.	Connect - can you link this to one more thing that you know.

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