



Science Knowledge Organiser


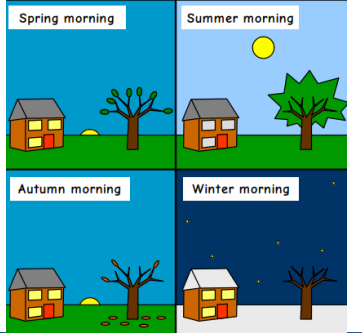
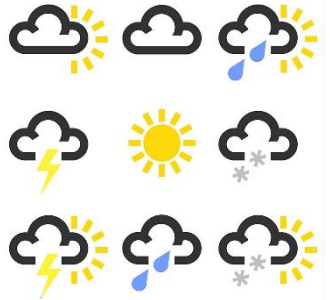





Term: Autumn 1

Year: 1

Physics:
Seasonal Changes

BIG QUESTION: WHAT HAPPENS WHEN SEASONS CHANGE?

Plants in Autumn	Key Knowledge & Vocabulary	What Changes?								
<p>Deciduous Trees</p> <p>Leaves begin to change colour and fall from trees.</p> 	<p>What is a season? The parts the year is divided into.</p> <p>What are the seasons called?</p> <ul style="list-style-type: none"> • Autumn • Winter • Spring • Summer <p>When are the seasons in the U.K.?</p> <table border="1"> <tr> <td>Autumn</td> <td>September, October, November</td> </tr> <tr> <td>Winter</td> <td>December, January, February</td> </tr> <tr> <td>Spring</td> <td>March, April, May</td> </tr> <tr> <td>Summer</td> <td>June, July, August</td> </tr> </table> <p>Weather What the air and the sky are like outside.</p> <p>Temperature How hot or cold it is.</p> <p>Thermometer Instrument used to measure temperatures.</p>	Autumn	September, October, November	Winter	December, January, February	Spring	March, April, May	Summer	June, July, August	<p>Daylight varies</p>  <p>Weather</p>  <p>Temperature</p>  <p>Temperature is measured using The Celsius scale, developed by Anders Celsius in the 1700s.</p>
Autumn	September, October, November									
Winter	December, January, February									
Spring	March, April, May									
Summer	June, July, August									
<p>Evergreen Trees</p> <p>Evergreen trees may have pine cones.</p> 										
<p>Flowering Plants</p> <p>Some flowering plants may have seeds.</p> 										

What happens in Autumn?

It's harvest time!



Some birds migrate.



Skies can be overcast.



Learning Links

Builds on:
EYFS: Seasonal Walks

What I am learning now:
Y1: Seasonal Changes

Leads to:
Y5: Earth's Movement in Space



Science Knowledge Organiser



Term: Autumn 2

Year: 1

Chemistry: Materials

BIG QUESTION: WHAT ARE THINGS MADE FROM?

Materials

Wood



Rock



Water



Key Knowledge & Vocabulary

Object

A thing that you can see and touch.

Material

The substance an object is made from.

Property

A description of what the material is like. What does it look like? What does it feel like?



Materials

Metal



Glass



Plastic



Scientists

Ole Kirk Christiansen used plastic to make LEGO bricks.



Charles Macintosh invented the first waterproof fabric.



John Dunlop used rubber when he invented the pneumatic tyre.



Learning Links

Builds on:
EYFS: Understanding the World

What I am learning now:
Y1: Everyday Materials

Leads to:
Y2: Everyday Materials

Term: Spring 1

Year: 1

Physics:
Seasonal Changes

BIG QUESTION: WHAT HAPPENS WHEN SEASONS CHANGE?

Plants in Winter

Deciduous Trees

Deciduous trees lose their leaves in winter.



Evergreen Trees

Evergreen trees keep their leaves all year long.



Flowering Plants

Many plants stop growing.



Key Knowledge & Vocabulary

What is a season?

The parts the year is divided into.

What are the seasons called?

- Autumn
- Winter
- Spring
- Summer

When are the seasons in the U.K.?

Autumn	September, October, November
Winter	December, January, February
Spring	March, April, May
Summer	June, July, August

Weather

What the air and the sky are like outside.

Temperature

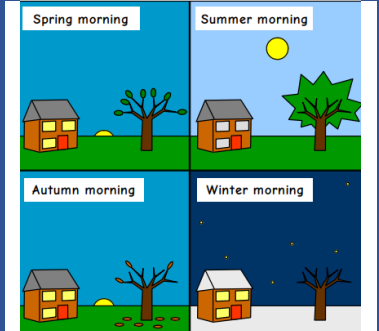
How hot or cold it is.

Thermometer

Instrument used to measure temperatures.

What Changes?

Daylight varies



Weather



Temperature



Temperature is measured using The Celsius scale, developed by Anders Celsius in the 1700s.

What happens in Winter?

It's the coldest time of the year.



Some animals hibernate.



We may see frost and snow.



Learning Links

Builds on:
EYFS: Seasonal Walks

What I am learning now:
Y1: Seasonal Changes


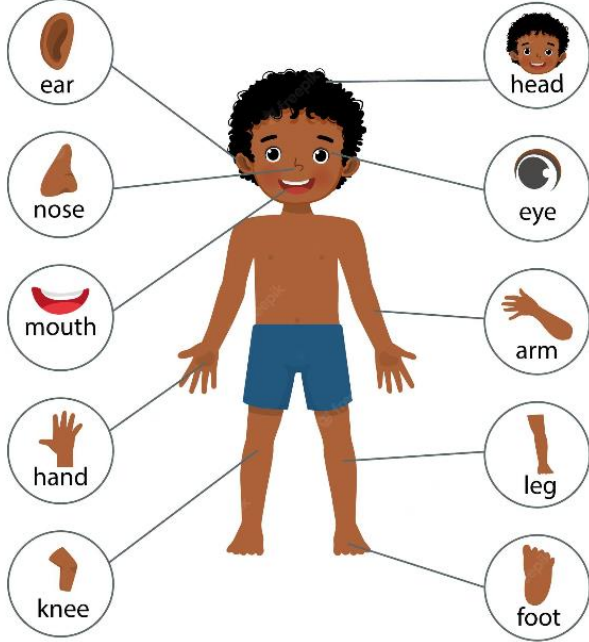
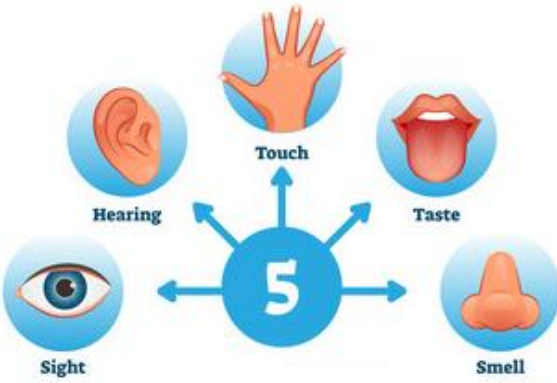




Leads to:
Y5: Earth's Movement in Space

Term: Spring 2

Year: 1

Biology: Animals including Humans

BIG QUESTION: WHAT ARE BODIES AND WHAT CAN THEY DO?

Classification	Key Knowledge & Vocabulary	Classification
<p>Amphibians</p>  <p>newt salamander toad</p> <p>Amphibians live in the water as babies and on land as they grow older. They are cold blooded.</p>	<p>Human Body</p>  <p>The Five Senses</p> 	<p>Fish</p>  <p>Lionfish Stingray Puffer</p> <p>Fish live under water and breathe through gills. They have scales and fins on their bodies and they are cold blooded.</p>
<p>Reptiles</p>  <p>gecko python sea turtle</p> <p>Reptiles have scales, breathe air, are cold blooded and usually lay eggs on land.</p>		<p>Mammals</p>  <p>Rhinoceros Sheep Tiger</p> <p>Mammals have hair or fur, breathe air, are warm blooded and drink milk when they are babies.</p>
<p>Birds</p>  <p>Barn owl Wood duck Penguin</p> <p>Birds have a beak, two legs, feathers and wings. They are warm blooded and their babies hatch from eggs.</p>		<p>What types of food do animals eat?</p> <p>Animals can be put into groups based on the types of food they eat.</p> <p>Herbivores only eat plants.</p> <p>Carnivores eat meat.</p> <p>Omnivores eat both plants and other animals.</p>

Sir David Attenborough

Sir David Attenborough is an inspirational **presenter, writer** and **conservationist**.

He is fascinated by animals and he has presented lots of educational programmes about life on Earth.



His programmes have explored **environmental issues** and how the natural world is changing.

He has spent his life **campaigning** to make things better for the world's wildlife.

Learning Links

Builds on:

EYFS: Understanding the World

What I am learning now:

Y1: Animals including Humans

Leads to:

Y2: Animals including Humans

Term: Spring 2

Year: 1

Physics:
Seasonal Changes

BIG QUESTION: WHAT HAPPENS WHEN SEASONS CHANGE?

Plants in Spring

Deciduous Trees

Deciduous trees grow buds and may have blossom.



Evergreen Trees

New growth appears on evergreen trees.



Flowering Plants

Flowers begin to grow.



Key Knowledge & Vocabulary

What is a season?

The parts the year is divided into.

What are the seasons called?

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- Winter
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When are the seasons in the U.K.?

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Weather

What the air and the sky are like outside.

Temperature

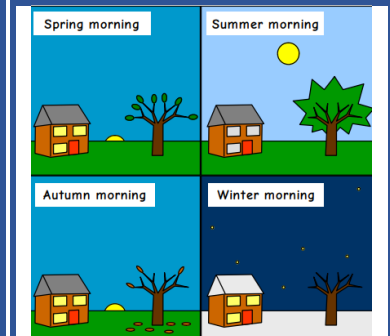
How hot or cold it is.

Thermometer

Instrument used to measure temperatures.

What Changes?

Daylight varies



Weather



Temperature



Temperature is measured using The Celsius scale, developed by Anders Celsius in the 1700s.

What happens in Spring?

It's Easter time!



Some baby animals are born.



It begins to get warmer.



Learning Links

Builds on:
EYFS: Seasonal Walks

What I am learning now:
Y1: Seasonal Changes

Leads to:
Y5: Earth's Movement in Space



Science Knowledge Organiser



Term: Summer 2

Year: 1

Physics:
Seasonal Changes

BIG QUESTION: WHAT HAPPENS WHEN SEASONS CHANGE?

Plants in Summer

Deciduous Trees

Deciduous trees have lots of green leaves.



Evergreen Trees

Evergreen trees keep their leaves all year.



Flowering Plants

Flowers are in bloom.



Key Knowledge & Vocabulary

What is a season?

The parts the year is divided into.

What are the seasons called?

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- Summer

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What the air and the sky are like outside.

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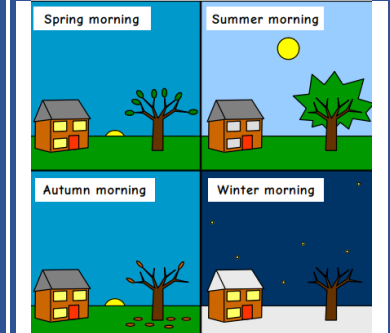
How hot or cold it is.

Thermometer

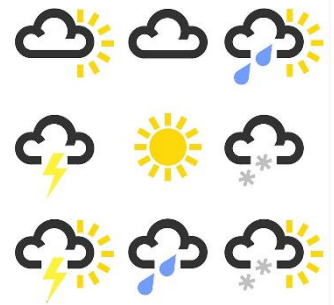
Instrument used to measure temperatures.

What Changes?

Daylight varies



Weather



Temperature



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What happens in Summer?

There are more hours of sunlight.



The hottest time of the year.



There may be thunderstorms.



Learning Links

Builds on:
EYFS: Seasonal Walks

What I am learning now:
Y1: Seasonal Changes

Leads to:
Y5: Earth's Movement in Space