

Science Knowledge Organiser

Seasonal Changes (Spring and Summer)

Yr 1

Main Foci: Physics

What should I already know?

- There are times when it is hot outside and there are times when it is cold outside.
- The **months** of the **year**.
- What happens in **Spring** and **Summer** (key events, what people do, what people wear)
- What the **weather** is like in **Spring** and **Summer**.
- In **Spring** and **Summer**, the days become longer, and the nights become shorter.

Vocabulary

Autumn	Autumn is the season between Summer and Winter when the weather becomes colder and the leaves fall off the trees
blossom	the flowers that appear on a tree before the fruit
day length	the amount of time where there is daylight .
daylight	Daylight is the natural light that there is during the day, before it gets dark
deciduous	a tree that loses its leaves in the Autumn every year
hot	Something that is hot has a high temperature
months	one of the twelve times of time that a year is divided into
nature	the animals, plants, and other things in the world that are not made by people
rain	Rain is water that falls from the clouds in small drops
season	the main times of year which can be divided and which have their own typical weather
Spring	the season between Winter and Summer when the weather becomes warmer and plants start to grow again
Summer	the season between Spring and Autumn when the weather is usually warm or hot
temperature	a measure of how hot or cold something is
weather	what the sky and air outside are like, such as cold or sunny .
Winter	the season between Autumn and Spring when the weather is usually cold

Procedural Knowledge

- Go on an **Spring nature** walk - what signs of **Spring** can you spot?
- Measure the **temperature** every day - what do you notice about the difference in **temperature** from the start of the unit to the end?
- Match events to the **seasons** they happen in? What is **weather** like during these events (e.g. Easter, Summer holidays)
- Discuss what happens when the children go home from school in the **Spring** and **Summer** - what do they notice about daylight? Compare this to what happens in the **Winter**.
- Analyse simple graphs that show how **day length** changes throughout the seasons.

What will I know by the end of the unit?

What is a season?

- There are four **seasons**
 - **Autumn** - September, October, November
 - **Winter** - December, January, February
 - **Spring** - March, April, May
 - **Summer** - June, July, August



autumn



winter



spring



summer

What happens in the Spring?



spring

- As the **seasons** change from **Winter** to **Spring**, it gets **warmer** and the **temperature** begins to rise.
- Some things that happen in **Spring** are:
 - leaves begin to appear on **deciduous** trees.
 - some trees begin to **blossom**.
 - many plants begin to grow.
 - lambs are born and chicks begin to hatch.
 - the days become longer and the nights become shorter.
- In the **Spring**, there are events such as Easter and St. George's Day.
- The **weather** may be **slightly sunny** but still a little **windy** and **rainy** on some days.



sunny



windy



rainy

- The clothes you might wear include long-sleeved tops and long trousers. As it gets closer to **Summer**, you may wear t-shirts and shorts on **sunnier** and **warmer** days.



shirt



shorts



t shirt



trousers

What happens in the Summer?

- As the **seasons** change from **Spring** to **Summer** it gets **warmer** still - this is because the **temperature** has risen.
- The days get longer and the nights get shorter. **Summer** has the longest days and the shortest nights of all the **seasons**.
- In the **Summer**, there are events such as the long school **Summer holidays** and
- Things people might do are have picnics, go to the beach, have a paddling pool in the garden and mow the lawn.



picnic



beach



mow

lawn

- The **weather** may be **hot** and **sunny**. There may not be many clouds in the sky.
- The clothes you might wear include t-shirts, shorts and swimming costumes.



t shirt



shorts



swimming costume

- It is important to stay safe in the **Summer** as the sun can be very strong. You can wear sun hats, sunglasses and sun cream to help keep you safe.

Question 1: The weather in Summer is usually....(tick two)	Start of unit:	End of unit:
sunny		
rainy		
cold		
hot		

Question 2: In which season are you more likely to go to the beach?	Start of unit:	End of unit:
Spring		
Summer		
Autumn		
Winter		

Question 3: How can we keep safe in the Summer?	Start of unit:	End of unit:

Question 4: Complete this sentence with the words short and long to make it true.	Start of unit:	End of unit:
<p>In the Summer, the days are _____ and the nights are _____.</p> <p>short</p> <p>long</p>		

Question 5: Write one thing in each section to explain what happens during these seasons.	Start of unit:	End of unit:
 <p>autumn</p>		
 <p>winter</p>		
 <p>spring</p>		
 <p>summer</p>		