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| **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 |
| What happens in the  **autumn?** | * The **temperature** beings to fall, which means it gets   **colder**.   * The leaves on **deciduous** trees change colour and begin to fall to the ground. * The days get shorter and the nights get longer. * In the **autumn,** there are events such as Halloween and Bonfire Night. * Things people might do are rake leaves, pick blackber- ries and collect **conkers** and pine cones.      * The **weather** may be **slightly sunny, windy** or **rainy**.      * The clothes you might wear include t-shirts and shorts on **sunnier** and **warmer** days, and woolly hats and scarves on **colder** days - especially as it gets closer to **winter.** |
| What happens in the **winter?** | * As the **seasons** change from **autumn** to **winter** it gets **colder** still - this is because the **temperature** has fallen. * Sometimes, it can **freeze** overnight and in the mornings, there may be **ice** and **frost.** * **Deciduous** trees have completely lost their leaves and the braches are bare. * The days get shorter and the nights get longer. **Winter** has the shortest days and the longest nights of all the **seasons**. * In the **winter,** there are events such as Christmas and Valentine’s Day. * Things people might do are build snowmen, eat warm foods like stews and soups and light fires.      * The **weather** may be **windy**, **rainy** and **chilly**. Sometimes it also **snows.** * The clothes you might wear include **warm** coats, jumpers, woolly hats and scarves on **colder** days. |

* Go on an **autumn nature** walk - what signs of **autumn** 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. Christmas Day, Halloween, Bonfire Night?)
* Discuss why it is good that fireworks happen in the **autumn**. What would happen if the happened in the **summer?**
* Discuss what happens when the children go home from school in the **autumn** and **winter** - what do they notice about daylight? Compare this to what happens in the **summer.**
* Analyse simple graphs that show how **day length** changes throughout the seasons.
* Research animals that **hibernate** or **migrate** in **winter months.**

**Investigate!**

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| **Vocabulary** | |
| autumn | **Autumn** is the **season** between **summer** and  **winter** when the **weather** becomes **colder** and the leaves fall off the trees |
| chilly | very **cold** |
| cold | If it is **cold**, the **temperature** is very low |
| conkers | round brown nuts which come from horse  chestnut trees |
| 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](https://www.collinsdictionary.com/dictionary/english/lose) its leaves in the [autumn](https://www.collinsdictionary.com/dictionary/english/autumn)  every [year](https://www.collinsdictionary.com/dictionary/english/year) |
| freeze | When it **freezes** outside, the **temperature** falls  below 0 degrees. |
| frost | the ground becomes covered in **ice** crystals |
| hibernate | Animals that **hibernate** spend the winter in a state like a deep sleep |
| ice | **Ice** is frozen water |
| migrate | when animals move at a particular **season** from one part of the world to another |
| 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** |
| slightly | a little bit |
| snow | soft white bits of **frozen** water that fall from the  sky in **cold 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 |
| sunny | when the sun is shining brightly |
| temperature | a measure of how hot or cold something is |
| warm | when there is some heat but not enough to be hot |
| weather | what the sky and air outside are like, such as **cold** or **sunny**. |
| windy | when the wind is blowing |
| winter | the **season** between **autumn** and **spring** when the **weather** is usually **cold** |

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| **Parklands Primary School - Science** | | | |
| **Topic: Seasonal Changes (Autumn and Winter)** | | **Year: 1** | **Strand: 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.** |

d to the **summer.**

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| Question 3: In which season are you more likely to wear a coat, woolly hat and scarf? | Start of unit: | End of unit: |
| spring |  |  |
| summer |  |  |
| autumn |  |  |
| winter |  |  |

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| Question 4: It always snows in winter. True or false? | Start of unit: | End of unit: |
| true |  |  |
| false |  |  |

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| Question 2: The weather in  winter is usually…. (tick two) | Start of  unit: | End of  unit: |
| sunny |  |  |
| rainy |  |  |
| cold |  |  |
| hot |  |  |

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| Question 1: Leaves begin to  fall from some trees in…. | Start of  unit: | End of  unit: |
| spring |  |  |
| summer |  |  |
| autumn |  |  |
| winter |  |  |

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| Question 5: Complete this sentence with the words **short** and **long** to make it true. | Start of unit: | End of unit: |
| In the winter, the days are  and the nights are .  **short long** |  |  |