

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.

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 its leaves in the autumn every 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

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 autumn?



autumn

- The temperature begins 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 blackberries and collect conkers and pine cones.



blackberries



pine cones



conkers

- 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 winter?



winter



ice



frost

- 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 branches 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.



soup



stew



snowmen

- 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.



coat



jumper



scarf



gloves

Investigate!

- 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.

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

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

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		

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

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