



Subject	Term	Unit
Science- Year 1	Autumn 1	Seasonal Changes

Intent

At Hurst Hill, we nurture young scientists by fostering curiosity and developing strong scientific knowledge and enquiry skills. Children learn to investigate, observe and evaluate confidently, understanding how science shapes the past, present and future while building firm foundations for lifelong scientific learning.

Prior knowledge	National Curriculum
<ul style="list-style-type: none"> Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur and talk about changes. 	<ul style="list-style-type: none"> observe changes across the four seasons observe and describe weather associated with the seasons and how day length varies

What?	To understand how the weather changes in each season and how this relates to the length of the days.
Why?	To understand the changes around them.
How?	Through observation and measurement. Through discussion and collection of information.

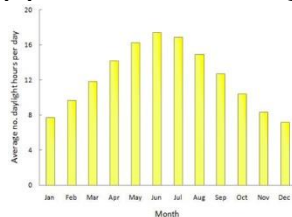
Vocabulary

Autumn	The season between summer and winter. When the weather becomes colder and leaves fall off the trees.
chilly	Very cold
cold	If it is cold, the temperature is very low.

day length	The amount of time there is daylight.
day light	The natural light 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.
ice	frozen water
months	One of the 12 time periods the year is divided into.
rain	Water that falls from the clouds in small drops.
season	The main times of year that can be divided and have their own typical weather.
snow	Soft 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.
summer	The season between spring and autumn when the weather is usually warm or hot.
sunny	When the sun is shining bright.
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 are like such as cold or sunny.
windy	When the wind is blowing.
winter	The season between autumn and spring. The weather is usually cold.

Objective	Learning
What is a season?	Identifying and classifying · Autumn: September, October, November

	<ul style="list-style-type: none"> · Winter: December, January, February · Spring: March, April, May · Summer: June, July, August <p>Show children pictures of each season and a time line of the year. Practise saying them and spelling them. Sing songs and rhymes for the months of the year.</p>
<p>What signs of Autumn can you spot?</p>	<p style="text-align: center;">Observing</p> <ul style="list-style-type: none"> · The temperature begins to fall, meaning it gets colder. · The leaves on deciduous trees change colour and begin to fall on the ground. · The days get shorter and the nights get longer. · Things people do—rake up leaves, pick berries, collect conkers. · Clothes you wear include t-shirts and shorts on sunny and warmer days and woolly hats, scarves, gloves on colder days the closer it gets to winter. <p>Go outside and spot signs of Autumn. Think about how this will change in Winter. Record the differences between Autumn and Winter.</p>
<p>What weather do we associate with the Autumn and winter season?</p>	<p style="text-align: center;">Pattern seeking</p> <ul style="list-style-type: none"> · As the seasons change from autumn to winter it gets colder still because the temperature has fallen. · It can freeze over-night and in the mornings there can be ice and frost · The days get shorter and nights get longer. Winter has the shortest days and the longest nights of all the seasons. · The weather maybe windy, rainy or chilly. Sometimes it also snows. <p>Look at secondary sources- books, internet, photographs. Go outside and look at the changes that are happening.</p>
<p>How does the weather change?</p>	<p style="text-align: center;">Comparative</p> <ul style="list-style-type: none"> · The weather maybe slightly sunny, windy or rainy, more clouds in the sky during autumn compare sun - wind - rainy days.

	<p>Think about the weather recently. Sort pictures of different weather into the different seasons. Sort the clothes that they might wear in different seasons based on the weather.</p>																										
<p>How does day length vary throughout the year?</p>	<p style="text-align: center;">Comparative</p> <p>Analyse simple graphs that show how day light changes throughout the seasons. Either create a simple bar chart using strips of paper or use a graph that is premade. Simple sentence to record what happens to the length of the day in winter.</p> <div style="text-align: center;">  <table border="1" style="display: none;"> <caption>Average number of daylight hours per day by month</caption> <thead> <tr> <th>Month</th> <th>Average no. daylight hours per day</th> </tr> </thead> <tbody> <tr><td>Jan</td><td>8</td></tr> <tr><td>Feb</td><td>9</td></tr> <tr><td>Mar</td><td>10</td></tr> <tr><td>Apr</td><td>12</td></tr> <tr><td>May</td><td>14</td></tr> <tr><td>Jun</td><td>16</td></tr> <tr><td>Jul</td><td>16</td></tr> <tr><td>Aug</td><td>14</td></tr> <tr><td>Sep</td><td>12</td></tr> <tr><td>Oct</td><td>10</td></tr> <tr><td>Nov</td><td>9</td></tr> <tr><td>Dec</td><td>8</td></tr> </tbody> </table> </div>	Month	Average no. daylight hours per day	Jan	8	Feb	9	Mar	10	Apr	12	May	14	Jun	16	Jul	16	Aug	14	Sep	12	Oct	10	Nov	9	Dec	8
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<p>How does a tree change over the year?</p>	<p style="text-align: center;">ideas over time</p> <p>Deciduous trees Watch a time lapse video of the tree and discuss how it changes through-out the year. Talk about the changes. Go out and investigate how the leaves have changed. Collect leaves. Either create a big class collage of the trees or present in books.</p>																										

Over the unit

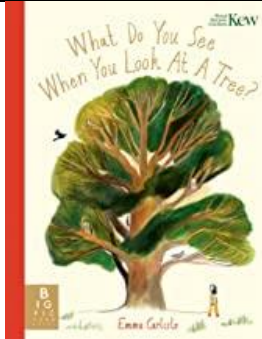
<p>They talk about the features of their own immediate environment</p>	<p>In which season does it rain the most and how does</p>	<p>observe and describe weather associated with the seasons and</p>	<p style="text-align: center;">Comparative testing</p> <ul style="list-style-type: none"> Go outside and check the weather. Collate the results of what is happening over the week. Children to explain what they have found out. 	<p>Rain Temperature Water Measure</p>
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and how environments might vary from one another	the daily amount change?	how day length varies	· Each day collect rain water and measure place results in a chart.	
They talk about the features of their own immediate environment and how environments might vary from one another	What do you notice about the temperature every day.?	observe and describe weather associated with the seasons and how day length varies	<p style="text-align: center;">Comparative</p> <p>Measure the temperature every day— what do you notice about the difference in temperature from the start and end of the unit?</p>	<p>Temperature</p> <p>Measure</p> <p>Warm</p> <p>Chilly</p> <p>Cold</p> <p>Hot</p>

Websites

[Year 1: Seasonal changes | STEM](#)
[Seasonal changes - Year 1 KS1 Science - BBC Bitesize](#)

Recommended Reads



Golden Thread

Changes in the world around us