

Science Knowledge Organiser: Seasonal Changes

Key Vocabulary

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| autumn | The season after summer and before winter. |
| cloudy | When the sky is full of clouds which make it seem darker. |
| clothing | Covering for the human body. |
| cold | Having a low temperature or one much below normal. |
| dark | Being without light or without much light. |
| data | Facts in numeral form that can be used in calculating, reasoning, or planning. |
| day | The time of light between one night and the next. |
| direction | The line or course along which something moves, lies, or points. |
| earth | Planet on which we live. |
| forecast | A statement saying what the weather will be like today, the next day or for the next few days. |
| gauge | A tool used to accurately measure. |
| light | The form of energy that makes it possible for the eye to see. The sun produces light. |
| lightning | Natural electricity produced in thunderclouds. Lightning appears as a bright flash or streak of light in the sky. |
| night | The hours of darkness between sunset and dawn. |
| precipitation | Snow, sleet, rain, or hail that falls to the surface of the earth, or the amount of it that falls in a given period of time. |
| rain | Water that falls from clouds in small drops. |
| rainfall | The amount of rain that falls over a certain area during a certain period of time. |
| seasons | Each of the 4 divisions of the year: winter, spring, summer and autumn. |
| shadow | The dark image cast on some surface by a person or thing blocking the light of the sun or another source of light. |
| snow | The small, soft, white pieces of ice that sometimes fall from the sky when it is cold. |
| spring | The season after winter and before summer. |
| storm | A disturbance of the atmosphere accompanied by wind and usually by rain, snow, hail, sleet, or thunder and lightning |
| summer | The season after spring and before autumn. |
| sun | A star that provides light and heat to the Earth. |
| temperature | A measured amount of heat in one place. |
| thermometer | an instrument for measuring temperature |
| thunder | A sudden loud noise that comes from the sky during a storm. |
| warm | Having or giving off some heat. |
| weather | The state of the atmosphere at a particular place and time. |
| wind | A current of air moving across the Earth's surface. |
| winter | The season after autumn and before spring. |

Knowledge Outcomes:

- I can observe changes across the four seasons.
- I can observe and describe weather associated with the seasons and how day length varies.

Working Scientifically

- I can ask simple questions and recognising that they can be answered in different ways.
- I can observe closely, using simple equipment.
- I can perform simple tests.
- I can identify and classify.
- I can use observations and ideas to suggest answers to questions.
- I can gather and record data to help in answer questions.

EYFS LINKS

Communication and Language: Listening, Attention and Understanding

Learn new vocabulary

Use new vocabulary through the day

Ask questions to find out more and to check they understand what has been said to them.

Articulate their ideas and thoughts in well-formed sentences.

Connect one idea or action to another using a range of connectives.

Describe events in some detail

Use talk to help work out problems and organise thinking and activities explain why they might happen.

Understanding the World:: The Natural World

Explore the natural world around them, making observations.

Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.

Understand some important processes and changes in the natural world around them, including the seasons.

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Knowledge: Spring

The weather starts to get warmer after winter.

1. Flowers growing
2. Baby animals are born
3. Frogs spawn
4. Birds build nests



Knowledge: Summer

The warmest season of the year.

1. Flowers fully grown
2. Insects around
3. Trees have lots of leaves
4. Frogs fully grown



Knowledge: Autumn

The weather starts to get cooler after summer.

1. Brown leaves on the ground
2. Squirrels start storing nuts
3. Hedgehogs hibernate



Knowledge: Winter

The coolest season of the year.

1. Frost and snow on ground
2. Trees have no or only a few leaves
3. Animals sleep as there is a lack of food



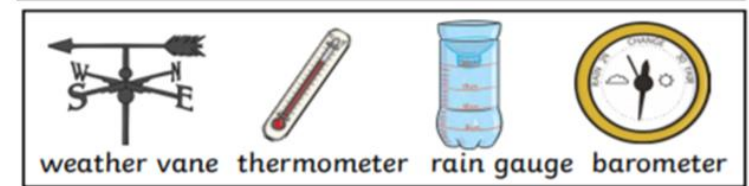
Knowledge: Day and Night



1. The days are longer in the summer
2. The days are shorter in the winter
3. The weather changes through the year
4. The Earth tilts (leans) towards the sun in the summer
5. The Earth tilts (leans) away from the sun in the winter



We use different instruments to **observe**, **record** and measure the weather.



Science Skills

- Sorting and Classifying
- Observation
- Research
- Pattern Seeking



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