



## The Canons CE Primary School



| Year 1 – Seasonal Changes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Prior Learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | In Year 1                                                                                                                                                                                                                                                                                                                                                      | Future Learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>In the EYFS children will be taught to:</p> <ul style="list-style-type: none"><li>• explore the natural world around them</li><li>• describe what they see, hear and feel whilst outside</li><li>• understand the effect of changing seasons on the natural world around them</li><li>• describe their immediate environment using knowledge from observation, discussion, stories, non-fiction texts and maps</li><li>• explore the natural world around them, making observations and drawing pictures of animals and plants</li><li>• understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</li></ul> | <p>In Year 1 children will be taught to:</p> <ul style="list-style-type: none"><li>• talk about the changes to the weather across the seasons</li><li>• talk about the changes to plants across the seasons</li><li>• describe the four seasons</li><li>• observe and describe the weather within the seasons and how the length of the day changes.</li></ul> | <p>In Year 3 children will be taught to:</p> <ul style="list-style-type: none"><li>• find patterns in the way that the size of shadows change</li><li>• investigate how the size of shadows change</li><li>• recognise how shadows are formed when a solid object blocks the light</li><li>• describe how light from the sun can be dangerous and the ways they can protect their eyes</li><li>• describe what happens when light hits a reflective surface</li><li>• describe what happens when there is an absence of light</li><li>• recognise that we need light in order to see things. (Light)</li></ul> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p><b>Key Vocabulary</b></p> <ul style="list-style-type: none"><li>• weather (sunny, rainy, windy, snowy etc.)</li><li>• seasons (winter, summer, spring, autumn)</li><li>• sun, sunrise, sunset, day length</li></ul>                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Famous Scientists                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Common Misconceptions                                                                                                                                                                                                                                                                                                                                          | Possible Evidence to be Secure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"><li>• Dr Steve Lyons - extreme weather</li><li>• Holly Green - meteorologist</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>Some children may think:</p> <ul style="list-style-type: none"><li>• it always snows in winter</li><li>• it is always sunny in the summer</li><li>• there are only flowers in spring and summer</li><li>• it rains most in the winter.</li></ul>                                                                                                            | <p>Children can:</p> <ul style="list-style-type: none"><li>• name the four seasons and identify when in the year they occur</li><li>• describe weather in different seasons over a year</li><li>• describe days as being longer (in time) in the summer and shorter in the winter</li><li>• describe other features that change through the year.</li></ul>                                                                                                                                                                                                                                                    |



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### Working Scientifically

#### National Curriculum Statutory Requirements

1. Ask simple questions and recognise that they can be answered in different ways.
2. Observe closely, using simple equipment.
3. Perform simple tests.
4. Identify and classify.
5. Use their observations and ideas to suggest answers to questions.
6. Gather and record data to help in answering questions.

Highlighted = main focus during this topic

#### Teaching Ideas – Different Types of Scientific Enquiry

| Comparative and Fair Testing           | Identifying and Classifying                                             | Observation Over Time                                 | Pattern Seeking                         | Research                                                             |
|----------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------|
| In which season does it rain the most? | How could you organise all the objects in the solar system into groups? | How does the colour of a UV bead change over the day? | Does the wind always blow the same way? | Are there plants that are in flower in every seasons? What are they? |

#### Teaching Ideas – How Pupils Could Work Scientifically

#### Teaching Ideas – Possible Evidence to be Secure

(Bracketed Number = National Curriculum Statutory Requirement Link)

- Collect information about the weather regularly throughout the year. (6)
- Present this information in tables and charts to compare the weather across the seasons. (6)
- Collect information, regularly throughout the year, of features that change with the seasons e.g. plants, animals, humans. (6)
- Present this information in different ways to compare the seasons. (5, 6)
- Gather data about day length regularly throughout the year and present this to compare the seasons. (6)

Children can:

- use the evidence gathered to describe the general types of weather and changes in day length over the seasons (5, 6)
- use their evidence to describe some other features of their surroundings, e.g. themselves, animals, plants that change over the seasons (1, 5, 6)
- demonstrate their knowledge in different ways e.g. making a weather forecast video, writing seasonal poetry, creating seasonal artwork.