Waterville Primary School Progression of Skills and Vocabulary in Science – Seasonal Change

Year 1

KS1 National Curriculum

Pupils should observe and talk about changes in the weather and the seasons. Pupils might work scientifically by: making tables and charts about the weather; and making displays of what happens in the world around them, including day length, as the seasons change. Children need to learn about how a number of things change with the seasons, including the weather, the temperature and the number of daylight hours. They do not need to know why these things change. It would be best to teach these phenomena through exploring the local environment rather than on topics to do with Earth and space.

Pupils should be taught:

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

Prior Learning

In Early Years:

- In Early Years, the children have looked at the seasons in relation to their outdoor provision. The children know and can name the four seasons
- Developing an understanding of change.
- Observe and explain why certain things may occur (e.g leaves falling off trees, weather changes).
- Look closely at similarities, differences, patterns and change.
- Comments and questions about the place they live or the natural world.

Vocabulary:

Weather (sunny, rainy, windy, snowy etc.), seasons (Winter, Summer, Spring, Autumn), sun, sunrise, sunset, day length, monsoon, thunder storm

	Comments and question	ons about the place they live of the flatural world.
Key skills to	Key Ideas	Possible Activities
be taught	Describe the weather	 Explore types of weather (hot/warm/cold, rainy/dry, cloudy/bright, etc). Create symbols for each type of weather.
To ask simple		Watch DVD / time-lapse / news reports of weather (including extremes)
questions and		Keep a daily record of the weather. Watch weather forecasts / match to the actual
recognise that		weather. Take photos. Compare to yearly weather records (inc. extremes).
they can be		Create symbols for weather types (link to forecasts)
answered in		Role play as weather forecasters
different ways.		• Compare the weather in other countries. Fictional postcard, webcams, weather maps, etc
		 Develop literacy through descriptive language of weather during seasons
To observe closely, using simple equipment.	There are four seasons	Discuss expected weather during each season. Show DVD clips of seasonal weather.
		Make collage of features of each season.
		 Keep record of the weather during the year. Observational drawings. Seasonal colours.
To perform simple tests.		Count days for each type of weather. Plot as blockcharts/pictograms (long term project).
		Photo diary.
		Measure temperature using a modified thermometer. Notice the difference inside and
To identify and		out. Keep a record over time.
classify.		Role play as travel agents.
		Research/explore/predict clothing, animal behaviours, etc over seasons.
To use their		 Observe sun moving across sky from direction of shadow (school feature or stick)(care, sun safety)
observations and		 Use length of shadow (paint on wooden board) change at the same time each month.
ideas to suggest		Relate to height by modelling with a torch.
answers to		 Use information about sun rise / sun set times to show changes in day length
questions.		 Link events to seasons (e.g. conker / leaf hunt, hibernation, new life (nesting), etc) • Do
To poth on and		bigger ice cubes melt slower in the sun? Do I need a bigger ice cream to stop it melting?
To gather and record data to		Webcam bird's nest, hibernating hedgehogs, etc
help in answering		 How many dustpans of leaves does it take to fill up the bin? Use different sized bins.
questions.		Create block charts for different sized bins
		Who can make the biggest snowball? Measure as length or weight. Discuss method. Get
		others to try. How many snowballs can we stack up before it falls over?
		Which trees lose their leaves first in the autumn? Which trees are the first to grow new leaves in the spring?
		leaves in the spring? - How many hours of daylight are there? Create blocksharts for the first day of each month.
1		 How many hours of daylight are there? Create blockcharts for the first day of each month Link all information to understand changes over the four seasons.
A	Ī	 Percy's shed. Set a weekly question / challenge.

Next steps:

- Recognise that light from the sun can be dangerous and that there are ways to protect their eyes. (Y3 Light)
- Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky. (Y5 Earth and space)
- The seasons and the Earth's tilt, day length at different times of year, in different hemispheres (KS3)