

Kirklevington Primary School: Science Topics Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Acorn	EYFS Curriculum: Science in Nursery and Reception is taught through the curriculum areas, 'Understanding the World', 'Personal, Social and Emotional Development' and Communication and language. It is introduced directly and indirectly through activities that encourage every child to explore, problem solve, observe, predict, think, make decisions and talk about the world around them.					
Willow	During their first years at school, children will explore creatures, people, plants and objects in their natural environments. They will observe and manipulate objects and materials to identify similarities and differences. They will also learn to use their senses to make observations. They will use a range of media to record their responses. Children will be encouraged to ask questions about why things happen and complete activities investigating, recording and begin to evaluate their findings. (See below)					
Birch	Everyday Materials	Humans	Seasonal Changes	Living things and their Habitats	Plants	Animals
Chestnut	Humans and Health	Materials/ Rocks	Forces	Light	Plants Living things and their habitats	Animals Living things and their habitats
Elm	States of Matter	Electricity	Properties and changes of materials	Sound	Living things and their habitats Animals, including humans	Forces
Oak	Animals, including humans	Electricity	Living things and their habitats	Evolution and inheritance	Light	Earth and Space

Nursery

Communication and Language:

- Understand 'why' questions, like: "Why do you think the caterpillar got so fat?"

Personal, Social and Emotional Development:

- Make healthy choices about food, drink, activity and tooth brushing.

Understanding the World

- Use all their senses in hands-on exploration of natural materials.
- Explore collections of materials with similar and/or different properties.
- Talk about what they see, using a wide vocabulary.
- Begin to make sense of their own life-story and family's history.
- Explore how things work.
- Plant seeds and care for growing plants.
- Understand the key features of the life cycle of a plant and an animal.
- Begin to understand the need to respect and care for the natural environment and all living things.
- Explore and talk about different forces they can feel.
- Talk about the differences between materials and changes they notice.

Reception

Communication and Language

- Learn new vocabulary.
- Ask questions to find out more and to check what has been said to them.
- Articulate their ideas and thoughts in well-formed sentences.
- Describe events in some detail.
- Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen.
- Use new vocabulary in different contexts.

Personal, Social and Emotional Development

- Know and talk about the different factors that support their overall health and wellbeing:
 - regular physical activity
 - healthy eating
 - tooth brushing

- sensible amounts of 'screen time'
- having a good sleep routine
- being a safe pedestrian

Understanding the World

- Explore the natural world around them.
- Describe what they see, hear and feel while they are outside.
- Recognise some environments that are different to the one in which they live.
- Understand the effect of changing seasons on the natural world around them.

ELG

Communication and Language Listening: Attention and Understanding

- Make comments about what they have heard and ask questions to clarify their understanding.

Personal, Social and Emotional Development: Managing Self

- Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.

Understanding the World: The Natural World

- Explore the natural world around them, making observations and drawing pictures of animals and plants.
- 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 and changing states of matter.