Science Long-Term Sequence

Whole-school curriculum coverage from Nursery to Year 4

SUBJECT • SCIENCE

EYFS FOUNDATIONAL KNOWLEDGE:
- Plants
- Animals including Humans
- Everyday materials
- Seasonal change
- Environmental change
- Forces and how things work
- Working scientifically

SUBSTANTIVE CONCEPTS:
- Biology
- Physics

DISCIPLINARY KNOWLEDGE KS1:
- Asking simple questions
- Observing closely, using simple equipment
- Performing simple tests
- Identifying and classifying
- Using their observations and ideas to suggest answers to questions
- Gathering and recording data to help in answering questions

DISCIPLINARY KNOWLEDGE KS2:
- Ask relevant questions
- Set up enquiries, comparative and fair tests
- Make accurate measurements using a range of equipment
- Gather, record, classify and present data in a variety of ways
- Record findings
- Report on findings
- Use results to draw simple conclusions
- Identify differences, similarities or changes

PHASE / YEAR	Autumn	Spring	Summer
Nursery	• Name simple human body parts • Learn how to look after our bodies (e.g. washing hands, brushing our teeth) • Explore day and night.	• Talk about how materials can change (making porridge and pancakes) • Know that fruit and vegetables are plants and how the grow and change over time.	• Name simple animal body parts. • Begin to understand how humans need to look after the environment and the part we all play.
Reception	• Know that people change as they grow • Know different materials are used for different purposes • Explore light and dark • Explore seasonal changes	• Begin to understand human impact on the environment • Changing materials - making pancakes • Choose different materials for a specific purpose • Explore seasonal changes	• Begin to understand the life-cycle of plants and animals • Name simple parts of a plant • Explore seasonal changes • Name human and animal body parts
Year 1	• Seasonal changes and daily weather • Introduce Animals, including Humans • Animals, including humans: Classification	• Introduce Plants including trees • Introduce Everyday materials	• Revisit animals including humans. • Plants
Year 2	• Introduce Living things and their habitats • Animals, including humans: Characteristics	• Uses of everyday materials • Revisit living things and their habitats	• Plants: Characteristics • Revisit living things and their habitats/ Everyday materials.
Year 3	• Rocks • Animals, including humans: Nutrition and skeletons	• Forces and magnets • Plants: Functions of parts	• Light • Revisit Animals including humans
Year 4	• Living things and their habitats: Classification • States of matter	• Animals, including humans: Digestive system and Food chains • Electricity	• Sound