Science Curriculum Overview

KS1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year A	Mirror, mirror on the wall…	Penguins and polar bears	To infinity and beyond!	Giants and dragons	The Jolly Postman	Handa's Surprise
2020-2021 2023-2024	**Human – naming parts of human body** **Basic needs of humans** Hygiene Exercise	**Everyday materials** – sand, water, ice. Observing ice balloons, measuring temperature. Best material for an Artic Adventurer's jacket; warmth and waterproofing. **Animals** – adaptations to cold climates.	**Seasonal changes** – sun safety. **Transport** – how things move on different surfaces.	**Everyday materials** – stone and bricks. Catapults. **Plants- observe growth** of a runner bean in various conditions.	**Animals, including humans –** looking after animals in the wild and pets. **Everyday materials-lifting weights.**	**Plants – Seeds.** How do we know if it's a seed? Cut open different seeds. **Living things and their habitats**. Basic needs of humans and animals for survival in Africa. How the habitats provide for the needs of the animals.
Working Scientifically	Using their observations and ideas to suggest answers to questions		Observing closely, using simple equipment		Asking simple questions and recognising that they can be answered in different ways.	
Year B	Heads, shoulders, knees and toes.	Going underground	Home and away	Ship Ahoy!	What's on your plate?	It's a bug's life.
2021-2022 2024-2025	**Human – naming parts of human body** Exercise Hygiene	**Everyday materials**/Living things – earth and rocks; name/compare/describe and living/dead/never been alive. **Classifying animals** by diet; naming carnivores, omnivores, herbivores	**Living things and their habitats** - name common coastal plants and animals. Identify suitability to habitat and food chains.	**Everyday materials** – floating and sinking; materials to build boats (modelling clay boats) Waterproof and insulating materials for sailors.	**Plants**- Sources of food. Requirements for growth; growing own vegetables and observing growth. **Animals, including humans** - Basic needs of humans and animals. Healthy eating	**Animals, including plants/humans-** Offspring grow into adults. . **Living things and their habitats-** habitats and micro-habitats. Simple food chains. Wrapping up Seasonal Study
Working Scientifically	Performing simple tests		Identifying and classifying		Gathering and recording data to help in answering questions	
Year C	The toy box	I hear thunder	London's burning	Percy the park keeper	Growth	Victorian Seaside
2022-2023 2025-2026	**Everyday materials –** Appropriate materials for baby toys. Investigate rolling/bouncing balls; which rolls the best or bounces the highest?	**Record the weather** – make our own weather station.	**Everyday materials** - Building materials; strength and flexibility. Bridges.	**Plants** –identify and name a variety of common wild and garden plants. **Living things and their habitats –** Identify and name common wildlife. Describe how they are suited to their habitats and depend on each other. Simple food chains.	**Plants** - naming parts and describe structure of flowering plants and trees. Seeds and bulbs grow into plants. **Animals, including humans** - Offspring grow into adults.	**Seasonal changes** – weather across the four seasons and changes to the environment. **Animals** – Look at how animals on the shore are suited to their environment; Sea Life Centre. Wrapping up Season Study.
Working Scientifically	Gathering, recording, classifying and presenting data in a variety of ways.		Observing closely, using simple equipment		Gathering and recording data to help in answering questions	

KS2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Class 3 Year A	My Britain, Your Britain, Our Britain	Smashing Saxons	Invaders	Road Trip	Yabadabadoo	Free Choice
	Animals and Humans – Digestion, teeth and food chains	States of Matter	Forces and Magnets	Water Cycle	Rocks:	All Living Things

Science Curriculum Overview

Scientific Enquiry Focus	Gathering, recording, classifying and presenting data in a variety of ways.		Using results to draw simple conclusions Report on findings from enquiries		Asking relevant questions and using different types of scientific enquiry to answer them	
Class 3 Year B	Rotten Romans	Violent Vesuvius	Location , Location, Location	Carnival!	Compton Then and Now	Life on Our Planet
	Light	Sound *Longitudinal study ongoing every term (see separate plan) – "Wild Area"*	Electricity	Plants	Animals and Humans – Nutrition and Skeletons	Changes in our school grounds – seasons, land use (longitudinal study)
Scientific Enquiry Focus	Setting up simple practical enquiries, comparative and fair tests		Making systematic and careful observations		Identifying differences, similarities or changes and using straightforward scientific evidence	
Class 4 Year A	The Power of Water	Our Changing World	Do the ayes have it?	Ancient Egyptians	All Creatures Great and Small	The Show Must Go On
	Evolution and inheritance (incl. adaptation)	Forces: gravity, air resistance and water resistance	Electricity	Forces: contact forces (increasing abstraction)	Living things & habitats: classification	Light
Scientific Enquiry Focus	Identify scientific evidence that has been used to support or refute ideas or arguments.		Planning different types of scientific enquires to answer questions.		Recording data and results of increasing complexity.	
Class 4 Year B	From Winchester to Weymouth PGL	Our Neighbours to the East	Pegasus, Planets and Pots Winchester College visit	Lights, Camera, Action!	Arabian Nights Science museum visit	The Show Must Go On Yr 6 Minstead
	Properties of Material Describing Materials:	Humans – Healthy lifestyle	Earth and Space	Humans - Respiration:	Life cycles of humans and animals	Changing Materials
Scientific Enquiry Focus	Taking measurements, using scientific equipment and taking repeat readings.		Reporting and presenting findings from enquiries		Using test results to make predications to set up further comparative and fair tests.	