

KS2 Science Curriculum: 4-Year Rolling Programme

YEAR A	YEAR B	YEAR C	YEAR D
Autumn	Autumn	Autumn	Autumn
<u>Y3 Light</u> Recap Light (Year C) Light & Dark. Reflection of light. Light from Sun & protecting eyes. How are shadows formed? Investigating shadows.	<u>Y3 Plants:</u> Structure & function, requirements for life & growth, water transport, flowers, pollination, seed formation & dispersal	<u>Y4 Living things & their Habitats:</u> Recap basic structure of plants (Year B) Living things can be grouped in variety of ways, explore, create & use classification keys. Envs change – can cause danger to living things.	<u>Y4 Electricity</u> Recap Electricity (Year B) Appliances that use electricity. Making simple series circuits – cells, wires, lamps, switches & buzzers. Exploring conductors & insulators.
<u>Y4 Animals including Humans</u> Recap Nutrition (Year D) Digestive system. Different types of human teeth & functions. Construct food chains; producer, predator, prey.	<u>Y4 Sound:</u> How sounds are made, vibrations travel to the ear, exploring pitch and volume, volume decreases with distance.	<u>Y3 Forces & Magnets</u> Recap Forces (Year A) Friction of surfaces, magnetic forces, magnets attract or repel & have 2 poles. Magnetic & non-magnetic materials.	<u>Y3 Animals including Humans</u> Recap Digestive system (Year A) Animals need right types of nutrition. Some animals have skeletons & muscles for support, protection & Movement.
Spring	Spring	Spring	Spring
<u>Y3 Rocks</u> Recap fossils (Year B) Compare & group rocks by appearance & physical properties. Describe how fossils are formed. Soils – made from rocks & organic matter	<u>Y5 Living things & Habitats:</u> Recap life cycle of plants (Year B) Life cycles of mammal, amphibian, insect & bird. Reproductive processes of plants & animals. <u>Y5 Animals including humans</u> Changes to humans as they age.	<u>Y4 States of Matter</u> Recap Properties of materials (Year D) Compare & group materials (solid, liquid, gas). Investigate how materials can change state. Water Cycle – evaporation & condensation.	<u>Y5 Properties & changes of Materials</u> Recap States of Matter (Year C) Group everyday materials by properties; hardness, solubility, transparency, electrical & thermal conductivity, response to magnets. Exploring solubility. Separating materials by filtering, sieving & evaporating using knowledge of solids, liquids & gases. Uses of materials & fair tests. Reversible and irreversible reactions.
<u>Y5 Forces</u> Recap force between surfaces (Year C) Gravity – objects falling toward Earth. Exploring friction, air resistance & water resistance. Mechanisms – levers, pulleys & gears using small forces.	<u>Y6 Electricity:</u> Recap simple circuits (Year D) Increasing no. of cells increases brightness of lamps/loudness of buzzer. Function of components of a circuit. Simple circuit diagrams.	<u>Y5 Earth & Space</u> Movement of Earth, Sun & planets. Sun, Earth & Moon as spheres. Movement of Moon relative to Earth. Explain night & day in terms of Earth's rotation.	
Summer	Summer	Summer	Summer
<u>Y6 Animals including humans</u> Main structure & function of circulatory system. How nutrients & water are transported in animals (inc humans) Impact of diet, exercise, drugs & lifestyle on body.	<u>Y6 Evolution & Inheritance:</u> Recap Rocks (Year A) Living things change over time, fossil information. Offspring from parents vary. Living things adapt to environment and how this may lead to evolution.	<u>Y6 Light</u> Recap Light (Year A) Light travels in straight lines – formation of shadows. Light reflects from objects into our eyes, using light from a light source.	<u>Y6 Living Things & their Habitats</u> Recap Sorting living things (Year C) How animals, plants & micro-organisms are classified into groups by characteristics. Why we sort living things in this way.