

Sylvester Primary Academy Science Curriculum Overview 2023-2024

	Aut	umn	Spi	ring	Summ	ver		
	Weather Hands on explanation of the consecuent work on explanations of the consecuent work of the consecuency of the							
Nursey	Weather - Hands on exploration of the senses and work on seasons are continuous throughout the year							
	Seasonal Changes - autumn to winter Autumn collections: acorns, pine cones, leaves, conkers etc (grouping, sorting, identifying) Exploring toys: how they work and, push and pull Colour: skittles		Seasonal Changes – winter to spring Pushes and pulls Keeping warm in winter. Exploring water and freezing, ice and melting. Making 3d house models exploring different materials.		Seasonal Changes – spring to summer Exploring how vehicles travel on different gradients Staying safe in the Sun How to keep cool in Summer. Learning to make bubbles.			
	Learning about how changed from when . Identifying and nami Woodland animals.	they were babies.	Exploring penguins/polar bears: habitat, how they can live in cold climates, food. Looking after birds in Winter. Planting seeds, looking after them and watching them grow. Naming basic flower/plant parts.		Life cycle of a butterfly. Bug hunts: finding and identifying minibeasts. Using body parts to move in different ways. Exploring animals and how they move. Caring for and tending to plants and growing vegetables.			
Reception	Investigating seasonal changes across the year							
	Shadows torches, sources of light/silhouettes	Reflective materials Sensory Tent- coloured lenses.	Magnets Racing with magnets.	Life Cycle of Duckling Plants: how and what plants need to grow, parts of a plant (flowering) and varieties of plants. Understand different types of plants.	Space Google Earth, Making Planets	Animals & Birds Naming different animals and birds e.g. explore different breeds and explore similarities and differences. Caring for animals		

Key Stage 1	Investigating seasonal changes - covered across the year in both cycles								
Cycle A	Animals including humans Body parts and senses	humans Identify common British trees and plants. Identify and na Naming and Key parts of plants including trees, their properties		Identify and name everyo their properties Distingu	eryday Materials ame everyday materials and es Distinguish between an e material it is made from.				
		Investigating seasonal changes covered across the year in both cycles							
Key Stage I Cycle B	Living things and their habitats Living, dead, never alive. Microhabitats.	Everyday Materials Distinguish between an object and the material it is made from. Identify and name everyday materials. Uses of materials, changing shape of materials	Animals including humans Offspring, needs far survival, healthy living	Plants How seeds grow into plants, what plants need to grow. Identify and describe basic structure of common plants including trees.	Living things and their habitats Living/dead, habitats, mini- beasts, food chains				
Year Three	Taught across the year: Plants – gathering evidence of plant life cycles								
	Animals including humans Nutrition, skeletons and muscles.	Rocks and soils Compare and grouping rocks based on their appearance and simple physical properties. Fossils and soils.	Forces Compare how things move on differ ent surfaces. Magnetism and magnetic materials.	Plants Functions of the parts of flowering plants Requirements of variety of plants for life and growth. Investigate the way in which water is transported within plants. Role of flowers in the life cycle of flowering plants.	Light Requirement of light to see, darkness is the absence of light, light is reflected from surfaces. Sun safety Shadows				

	Electricity		States of	matter	Animals including humans	Habitats	Sound
	Common electrical appliances. Construct and name parts in a simple series electrical circuit. Switches, conductors and insulators.	Compare and group materials into solids, liquids and gases. Observing and measuring changes of state. The role of evaporation and condensation in the water cycle.			Human digestive system. Identify the different types of teeth in humans and their simple functions. Construct and interpret a variety of food chains. Identify carnivores, herbivores and omnivores.	Living things can be grouped in a variety of ways. Classification keys. Environmental changes and their impact on living things.	How sounds are made. How vibrations travel through a medium to the ear. Pitch and volume.
Year Five	Living things a habitats Describe the differer life cycles of a mai amphibian, an inse bird. Describe the life pro reproduction in son and plants	uce in the mmal, an ct and a ucess of	Animals including humans Changes as humans develop to old age.	Forces Gravity, air resistance, water resistance and friction. Mechanisms including gears, levers and pulleys.	Earth and Space Movement of the Earth, and other planets, relative to the Sun in the solar system. Movement of the moon in relation to the Earth Day and night.	Properties of materials Compare and group everyday materials including by their hardness, solubility, transparency, conductivity and response to magnets. Know that some materials dissolve in liquid to form a solution. Separating mixtures. Uses of materials based on comparative tests.	Changes of materials Dissolving, mixing and changes of state are reversible changes. Some changes result in the farmation of new materials, and that this kind of change is not usually reversible.

Year Six	Electricity	Living things and	Animals including	Evalution and inheritance	Light
	Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. Use recognised symbols when representing a simple circuit in a diagram.	their habitats Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals. Give reasons for classifying plants and animals based on specific characteristics.	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. Impact of diet, exercise, drugs and lifestyle on the way their bodies function. Describe the ways in which nutrients and water are transported within animals, including humans.	Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. Recognise that living things produce offspring of the same kind, but normally offspring wary and are not identical to their parents. Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.	Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye. Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes. Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

Biology Chemistry

Physics