Salehurst C of E Primary School

Curriculum Subject Overview – Science

	Autumn - Terms 1 and 2	Spring - Terms 3 and 4	Summer - Terms 5 and 6
R	* Ongoing work on the seasons, habitats and plants * Observational drawings of plants * Growth and change in humans * How shadows are formed * Chemical reactions (vinegar and bicarbonate potions) * Learning about vibrations	* Ongoing work on the seasons, habitats and plants * Observational drawings of plants * Magnetism * Vibrations * Spider facts * Learning about invertebrates * Changing cream to butter * How plants grow * Floating and sinking * Chemical reactions (cleaning coins)	* Ongoing work on the seasons, habitats and plants * Observational drawings of plants * The moon, Earth and space * Lifecycles * Bones and fossils * Sorting materials
1	**Seasonal Change** Observe and describe seasonal changes. **Animals including humans** Identify and name different animals and parts of the body; become familiar with the different senses	**Everyday materials** Grouping different materials and describing the simple physical properties of everyday materials.	**Plants** Identify and name a variety of common plants; describe the basic structure of flowering plants.
2	**Living things and their habitats** Explore how different habitats meet the basic needs of different animals and plants. **Animals including humans** Explore what humans and animals need to survive and to be healthy.	**Everyday materials** Identify and compare the suitability of a variety of everyday materials for different purposes; explore the different properties of solid materials.	**Plants** Name and identify deciduous and evergreen trees; explore how plants grow.
Cycle A			

3 & 4	**Rocks (NC Y3)** Physical properties of different types; how fossils are formed; soils are made from rocks and organic matter. **Plants (NC Y3)** Functions of different parts; requirements for life and growth; water transportation within the plant; life cycles of flowering plants.	**Forces and Magnets (NC Y3)** How things move on surfaces; some forces need contact but magnetic forces act at a distance; observe magnets attracting/repelling each other and materials; compare and group materials (attract/repel/magnetic/non-magnetic); describe the two poles; predict magnet's behaviour depending on poles. **States of matter (NC Y4)** Solids, liquids, gases, heating/ cooling, evaporation/condensation.	**Living things and their habitats (NC Y4)** Grouping/classification, environmental change
5 & 6	**Earth and Space (NC Y5)** Solar system; movement of Earth and moon; day and night. **Electricity (NC Y6)** investigate how the brightness of a lamp and the volume of a buzzer changes with the number and voltage of cells used in a circuit; give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on / off positions of switches; use recognised symbols when representing a circuit in a diagram.	**Forces (NC Y5)** Gravity, air resistance, water resistance, friction, mechanisms. **Properties and changes of materials (NC Y5)** Dissolving and recovery; separating materials; reversible and irreversible changes; reasons for uses of materials.	**Evolution (NC Y6)** Learn how fossils provide information about living things that inhabited the Earth in the past; recognise that living things produce offspring that are not identical to their parents; identify how plants and animals are adapted to suit their environment and that adaptation may lead to evolution.
Cycle B			
3 & 4	**Electricity (NC Y4)** Circuits, switches, conductors and insulators. **Light (NC Y3)** Why we need light; what dark is; light is reflected from surfaces; sunlight can be dangerous (eye protection); formation of shadows when light is blocked; patterns in the size of changing shadows.	**Animals, including humans (NC Y3 and Y4 content)** Types and amount of nutrition; where from; skeletons and muscles for support, protection and movement. Teeth; the digestive system; food chains	**Sound (NC Y4)** Vibrations, pitch, volume.

5 & 6	**Light (NC Y6)** Understand that light appears to travel in straight lines and is necessary for us to see objects. Understand how shadows are formed.	**Animals, including humans (NC Y5 and Y6 content)** Describe the changes as humans develop to old age; identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. Recognise the 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.	**Living things and their habitats (NC Y5 and Y6 content)** Life cycles; plant and animal reproduction. Classification and reasons for it.