

	Biology					
	Living things and their habitats	Animals including humans	Plants	Evolution and Inheritance		
У1		 Know how to classify a range of animals by amphibian, reptile, mammal, fish and birds Know and classify animals by what they eat (carnivore, herbivore and omnivore) Know how to sort by living and non-living things Know the name of parts of the human body that can be seen 	 Know and name a variety of common wild and garden plants Know and name the petals, stem, leaves and root of a plant Know and name the roots, trunk, branches and leaves of a tree 			
У2	 Classify things by living, dead or never lived Know how a specific habitat provides for the basic needs of things living there (plants and animals) Match living things to their habitat Name some different sources of food for animals Know about and explain a simple food chain 	 Know the basic stages in a life cycle for animals, (including humans) Know why exercise, a balanced diet and good hygiene are important for humans 	 Know about plant and seed growth, including plant reproduction and how to keep plants healthy Know and explain how seeds and bulbs grow into plants Know what plants need in order to grow and stay healthy (water, light & suitable temperature) 			



УЗ		 Know about skeletons and muscles, nutrition, exercise and health Know about the importance of a nutritious, balanced diet Know how nutrients, water and oxygen are transported within animals and humans Know about the skeletal and muscular system of a human 	 Know the function of different parts of flowing plants and trees Know how water is transported within plants Know the plant life cycle, especially the importance of flowers 	
У4	 Use classification keys to group, identify and name living things Know how changes to an environment could endanger living things Group materials based on their state of matter (solid, liquid, gas 	 Identify and name the parts of the human digestive system Know the functions of the organs in the human digestive system Identify and know the different types of human teeth Know the functions of different human teeth Use and construct food chains to identify producers, predators and prey 		
У5	 Know the life cycle of different living things e.g. mammal, amphibian, insect and bird Know the differences between different life cycles Know the process of reproduction in plants 	 Know about the changes humans pass through as they develop from birth to old age Create a timeline to indicate stages of growth in humans 		



	•	Know the process of reproduction in animals Know about famous naturalists		
У6	•	Classify living things into broad groups according to observable characteristics and based on similarities and differences Know how living things have been classified Give reasons for classifying plants and animals in a specific way	 Identify and name the main parts of the human circulatory system Know the function of the heart, blood vessels and blood Know the impact of diet, exercise, drugs and lifestyle on health Know the ways in which nutrients and water are transported in animals, including humans 	 Know how the Earth and living things have changed over time Know how fossils can be used to find out about the past Know about reproduction and offspring (recognising that offspring normally vary and are not identical to their parents) Know how animals and plants are adapted to suit their environment Link adaptation over time to evolution Know about evolution and can explain what it is



	Chemistry Chemistry				
	Everyday Materials	Rock	Stages of Matter	Properties and Changes of Materials	
У1	 Know the name of the materials an object is made from Know about the properties of everyday materials Group materials based on their properties 				
У2	 Know how to identify different materials Know how materials can be changed by squashing, bending, twisting and stretching Compare the use of different materials Compare movement on different surfaces Know why a material might or might not be used for a specific job 				
УЗ		 Know about fossil formation, how to compare and group rocks and soil Compare and group rocks based on their appearance 			



	•	and physical properties, giving reasons Know how soil is made and how fossils are formed Know about and explain the difference between sedimentary, metamorphic and igneous rock		
У4			 Know how to compare and group materials, understand solids, liquids and gases and the water cycle Know the temperature at which materials change state Know about and explore how some materials can change state Know the part played by evaporation and condensation in the water cycle 	
У5				Compare and group materials based on their properties (e.g. hardness, solubility, transparency, conductivity,



У6			irreversible
			 evaporating) Know and demonstrate that some changes are reversible and some are not Know how some changes result in the formation of a new material and that this is usually
			 a substance from a solution Know and demonstrate how some materials can be separated (e.g. through filtering, sieving and
		•	 [electrical & thermal], and response to magnets Know and explain how a material dissolves to form a solution Know and show how to recover



Physics						
	Seasonal Changes	Forces	Light	Sound	Electricity	Earth and Space
У1	Name the seasons and know about the type of weather in each season					
У2						
УЗ		 Know about different forces, including magnets Know about and describe how objects move on different surfaces Know how a simple pulley works and use to on to lift an object Know how some forces require contact and some do not, giving examples Know about and explain how magnets attract and repel Predict whether 	 Know and demonstrate how a shadow is formed and explain how a shadow changes shape Know about the 			



	or repel and give a reason	
y4		 Know how sound is made, associating some of them with vibrating Know how sound travels from a source to our ears Know the correlation between pitch and the object producing a sound Know the correlation between the volume of a sound and the strength of the vibrations that produced it Know what happens to a sound as it travels away from its source Identify and name appliances that require electricity to function Construct a series circuit Identify and name appliances that require electricity to function Construct a series circuit (including cells, wires, bulbs, switches and buzzers) Predict and test whether a lamp will light within a circuit Know the function of a switch Know the difference between a conductor and an insulator; giving examples of each
У5	Know what gravity is and its impact on our lives	Know about and explain the movement of the Earth and other planets relative to the Sun



	 Identify and know the effect of air and water resistance Identify and know the effect of friction Explain how levers, pulleys and gears allow a smaller force to have a greater effect 			 Know about and explain the movement of the Moon relative to the Earth Know and demonstrate how night and day are created Describe the Sun, Earth and Moon (using the term spherical)
У6		 Know how light travels Know and demonstrate how we see objects Know why shadows have the same shape as the object that casts them Know how simple optical instruments work e.g. periscope, telescope, binoculars, mirror, magnifying glass etc. 	 Compare and give reasons for why components work and do not work in a circuit Draw circuit diagrams using correct symbols Know how the number and voltage of cells in a circuit links to the brightness of a lamp or the volume of a buzzer 	