WHOLE SCHOOL END POINTS

SCIENCE

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Cycle A	EY	Seasonal Changes: Autumn	Light & Dark Nocturnal Animals	Seasonal Change: Winter / Hibernation	Animal Habitats	Growing Life Cycles	Space
	Y1/2	What Are Toys Made From?	My Body	Identifying Animals	Everyday Materials	Exploring Materials	Seasonal Change
	Y3/4	Light and Shadow	States of Matter	Circuits and Conductors	Living Environments	Habitats: Desert Life	Changing Sound
	Y5/6	Changes and Reproduction	Life Cycles	Changing Circuits	Evolution and Inheritance	Classifying Organisms	Investigating Science
Cycle B	EY	Seasonal Changes: Autumn	On the Farm	Freezing & Melting	Seasonal Change: Spring	Growing Life Cycles	Minibeasts
	Y1/2	Identifying Plants	Growth and Survival	Living in Habitats	Super Scientists	The Secret World of Plants	Growing Plants
	Y3/4	Forces and Magnets	Health and Movement	Eating Digestion	What Do Scientists Do?	Rocks, Fossils and Soils	How Plants Grow
	Y5/6	Properties and Changes of Materials	Earth and Space	Forces in Action	Great British Scientist	Seeing Light	Healthy Bodies

	Cycle A					
	Autumn		**Spring**		**Summer**	
Early Years	**Seasonal Changes:** Autumn	**Light & Dark Nocturnal Animals**	**Seasonal Change:** Winter / Hibernation	**Animal Habitats**	**Growing Life Cycles**	**Space**
	• Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter	• Explore the natural world around them, making observations and drawing pictures of animals and plants.	• Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter	• Know some similarities and differences between the natural world around them and contrasting environments	• Explore the natural world around them, making observations and drawing pictures of animals and plants	• Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary.
Year 1/2	**What Are Toys Made From?**	**My Body**	**Identifying Animals**	**Everyday Materials**	**Exploring Materials**	**Seasonal Change**
	• Identify and name a variety of everyday materials used to make toys. • Describe the properties of common materials	• Identify, name and label body parts. • Explore what parts of our bodies we use for different activities. • Name the 5 senses	• Identify and name a variety of common animals. • Identify and sort carnivores, herbivores and omnivores. • Collect data about animals and answer questions	• Describe why some materials suit certain objects better than others. • Plan and carry out a fair test with support	• Identify natural and man-made materials. • Identify that some materials can change shape by squashing, bending, stretching and twisting, and others can't. • Identify different materials that are used for same product	• Name and describe the 4 seasons • Describe how humans and animals are affected by the seasons • Describe how day length is affected by the seasons.
Year 3/4	**Light and Shadow**	**States of Matter**	**Circuits and Conductors**	**Living Environments**	**Habitats: Desert Life**	**Changing Sound**
	• Identify what light is and where it comes from. • Describe what shadows are and how they behave • Describe how shadows are and why they are formed.	• Compare and group materials according to whether they are solids or liquids. • Identify and explore the properties of gases. • Describe how materials change state when they are heated or cooled.	• Construct simple circuits • Describe how to keep safe around electrical appliances. • Recognise common conductors and insulators	• Identify a variety of habitats and explore why organisms live in different habitats • Classify animals into specific groups according to their characteristics. • Use a classification key to identify animals.	• Describe features of a desert habitat • Group desert animals in different ways • Describe how plants and animals are adapted to survive in the desert	• Describe relationship between distance and volume. • Plan and carry out a fair test • Draw conclusions from their observations
Year 5/6	**Changes and Reproduction**	**Life Cycles**	**Changing Circuits**	**Evolution and Inheritance**	**Classifying Organisms**	**Investigating Science**
	• Recognise and describe e the stages of growth and development in humans. • Know the stages in the gestation period of humans and compare them to other animals. • Understand the initial changes inside and outside of the body during puberty for boys and girls	• Describe the process of sexual and asexual reproduction in flowering plants. • Describe the process of sexual reproduction in animals. • Compare how different animals reproduce and grow.	• Recognise and use conventional symbols for circuits. • Describe ways in which the brightness of a bulb or speed of a motor is changed. • Plan, carry out and evaluate an experiment	• Describe how adaptation of plants and animals to suit their environment may lead to evolution. • Describe how and why species can change over time • Explain some ways in which human behaviour has changed the characteristics of other species	• Describe what micro-organisms are and how they can be grouped. • Give reasons for why classification systems are important • Use a variety of sources of information to identify organisms they are unfamiliar with in the local area	• Devise and conduct tests, interpreting results and reporting findings • Use observations and test results to make predictions and to set up further tests

	Cycle B					
	Autumn		**Spring**		**Summer**	
Early Years	**Seasonal Changes:** Autumn	**On the Farm**	**Freezing & Melting**	**Seasonal Change:** Spring	**Growing Life Cycles**	**Minibeasts**
	• Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter	• Know some similarities and differences between the natural world around them and contrasting environments	• Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter	• Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter	• Explore the natural world around them, making observations and drawing pictures of animals and plants	• Explore the natural world around them, making observations and drawing pictures of animals and plants
Year 1/2	**Identifying Plants**	**Growth and Survival**	**Living in Habitats**	**Super Scientists**	**The Secret World of Plants**	**Growing Plants**
	• Identify plants and describe similarities and differences between them • Describe the features of different trees using appropriate vocabulary • Name and describe the function of the parts of a plant	• Identify the offspring of a variety of different animals. • Describe some of the different ways animals have offspring • Describe the stages of human development	• Identify things that are living, things that are dead and things that have never been alive • Compare habitats and the animals and plants that live in them • Construct a simple food chain	• Use own knowledge to make predictions • Ask questions and make observations • Notice and describe patterns in their findings	• Identify the things most plants need to germinate and mature • Begin to explain, in simple terms, how plants make their own food? • Observe and describe how plants grow	• Name some plants that grow from seeds and bulbs • Describe some of the ways in which seeds can be dispersed • Plan and carry out an investigation, making sure it is a fair test
Year 3/4	**Forces and Magnets**	**Health and Movement**	**Eating Digestion**	**What Do Scientists Do?**	**Rocks, Fossils and Soils**	**How Plants Grow**
	• Identify pushes and pulls and explain the forces in action • Describe how magnetic forces work • Make and test predictions about whether materials are magnetic or not	• Identify and group a variety of foods • Know the difference between vertebrates and invertebrates • Know what muscles are and their purpose	• Identify the different types of human teeth and their purpose • Name some of the organs associated with the digestive system • Describe the process of digesting food	• Identify the steps involved in the scientific method. • Draw conclusions from careful observations. • Create a hypothesis and plan an investigation to answer an enquiry question.	• Identify and name some common rocks • Evaluate results and draw conclusions • Describe how fossils are formed	• Describe the way in which water is transported within plants. • Know how and where seeds are formed in flowering plants • Identify the parts of a seed
Year 5/6	**Properties and Changes of Materials**	**Earth and Space**	**Forces in Action**	**Great British Scientist**	**Seeing Light**	**Healthy Bodies**
	• Plan and conduct a fair test involving soluble and insoluble materials • Describe how evaporation can be used to separate soluble materials from water • Recognise reversible and irreversible changes caused by heating and cooling	• Describe the movements of the Sun, Earth and Moon. • Describe how the phases of the Moon are created • Name the eight planets in our solar system?	• Identify and explain the effects of friction • Identify and explain the effects of air resistance.	• Investigate and explain Newton's three laws of motion • Describe the effects of gravity and how it changes in different places in our solar system • Describe the works of Anning, Darwin and/or Wallace and how their work contributed to scientific understanding	• Describe and explain how an object's shadow can be manipulated • Name and describe the purpose of the parts of the eye • Distinguish if object will reflect or refract light	• Describe how the circulatory system works • Describe the functions of the heart • Describe the harmful effects some drugs can have on the body