

**Curriculum Breadth:** Shaped by our curriculum drivers, curriculum breadth is the topic or area students will study with links to the National Curriculum. For example: rocks and fossils, Ancient Greece, cooking and nutrition, the water cycle, world continents and oceans etc.

Class 1 – Cycle A			
	Term 1	Term 2	Term 3
<b>Week 1</b>	<b>Plants</b> Wild and garden plants	<b>Plants</b> Structure of flowering plants	<b>Living things</b> Things that are living, are dead and have never been alive
<b>Week 2</b>	Evergreen and deciduous trees	Structure of trees	Animal habitats
<b>Week 3</b>	<b>Animals and humans</b> Birds, fish and amphibians	<b>Animals and humans</b> Carnivores, herbivores and omnivores	Animal habitats
<b>Week 4</b>	Reptiles, mammals and invertebrates	Compare and describe birds, fish, amphibians, reptiles, mammals and invertebrates	Animal habitats and how they provide for the basic needs of the animals which are found there
<b>Week 5</b>	Parts of the human body and the 5 senses	<b>Animals and humans</b> Offspring and growth of animals and humans into adulthood, and how humans can resemble their parents	Plant habitats and how they provide for the basic needs of the plants which are found there
<b>Week 6</b>	<b>Materials</b> Distinguishing between object and material: wood, plastic, glass, metal, water and rock	<b>Light</b> Sources of light	Simple food chains
<b>Week 7</b>	<b>Materials</b> Properties of everyday materials	<b>Light</b> How we see – light traveling from a source to our eyes	<b>Movement and forces</b> Experiment with pushing objects gently and hard, record and explain what happens
<b>Week 8</b>	<b>Materials</b> How some solid objects can be changed by squashing, bending, twisting and stretching	<b>Light</b> Experiment with ways to block light and make shadows	<b>Movement and forces</b> Experiment with a slope and record how this changes the speed at which an object rolls
<b>Week 9</b>	<b>Electricity</b> Common appliances	<b>Sound</b> Discriminate between different sounds	<b>Electricity</b> Experiment with simple series circuits
<b>Week 10</b>	<b>Electricity</b> Simple series circuits	<b>Sound</b> Sources of sound and hearing with our ears	<b>Electricity</b> Experiment with simple series circuits

Class 1 – Cycle B			
	Term 1	Term 2	Term 3
<b>Week 1</b>	<b>Plants</b> Similarities and differences between deciduous and evergreen trees	<b>Plants</b> Categorise some plants	<b>Plants</b> Similarities and differences in the growth of seeds and bulbs
<b>Week 2</b>	<b>Animals and humans</b> Main differences between birds, fish, amphibians, reptiles, mammals and invertebrates	Structure of (real) flowering plants	How could you try to revive these plants? Dried out plant, plant that has been kept in a fridge, in the dark etc
<b>Week 3</b>	Show how carnivores, herbivores and omnivores are similar and different	<b>Plants</b> Wild and garden plants, common deciduous and evergreen trees	<b>Animals and humans</b> Explore the 5 senses eg: explain why the sense of touch may be important to a blind person
<b>Week 4</b>	Differences and similarities between adult animals and humans and their offspring.	<b>Animals and humans</b> Compare mammals with amphibians	Categorise food types and explain why each group is important to humans
<b>Week 5</b>	<b>Living things</b> Organise things of your choice into groups of living, dead and never been alive	<b>Living things</b> Compare the types of food that different animals require	<b>Living things</b> Explain why a habitat for a plant or animal is suitable
<b>Week 6</b>	<b>Materials</b> Explore that glass bottles are made from sand	Categorise animals and plants according to the conditions they require	Explain the differences in a food chain for a herbivore and a carnivore
<b>Week 7</b>	<b>Materials</b> Choose objects and explain how they were made from their original material, then group objects	<b>Electricity</b> Experiment with broken circuits	<b>Movement and forces</b> Compare the movement of a remote control car and a helicopter drone
<b>Week 8</b>	<b>Materials</b> Compare properties of materials and explain why certain materials are used for certain purposes	<b>Light</b> Experiment with ways to block light travelling to our eyes	<b>Sound</b> Compare and contrast sounds based on a chosen criteria
<b>Week 9</b>	<b>Electricity</b> Categorise electrical appliances	<b>Earth's movement in space</b> Explore how you might know what time of day it is by looking at the position of the sun	<b>Animals and humans</b> Explain why habitats for rabbits differ from those of a frog
<b>Week 10</b>	Modify a circuit to add more components, explore the effect that adding components has on a circuit	Compare weather and day length across the four seasons	Describe a healthy diet for a human, exercise and hygiene

**Class 2 – Cycle A**

	<b>Term 1</b>	<b>Term 2</b>	<b>Term 3</b>
<b>Week 1</b>	Materials - rocks and soil	Movement and forces	Plants
<b>Week 2</b>	Materials -rocks and soil	Movement and forces	Plants
<b>Week 3</b>	Materials – rocks and soil	Movement and forces	Light
<b>Week 4</b>	Plants	Animals and humans	Light
<b>Week 5</b>	Plants	Animals and humans	Light
<b>Week 6</b>	Plants	Animals and humans	Electricity
<b>Week 7</b>	Living things	Animals and humans	Electricity
<b>Week 8</b>	Living things	Evolution and inheritance	Materials – states of matter
<b>Week 9</b>	Living things	Sound	Materials – states of matter
<b>Week 10</b>	Movement and forces	Sound	Materials – states of matter

**Class 2 – Cycle B**

	<b>Term 1</b>	<b>Term 2</b>	<b>Term 3</b>
<b>Week 1</b>	Materials - rocks and soil	Light	Sound
<b>Week 2</b>	Materials - rocks and soil	Light	Sound
<b>Week 3</b>	Materials - rocks and soil	Light	Movement and forces
<b>Week 4</b>	Plants	Electricity	Movement and forces
<b>Week 5</b>	Plants	Electricity	Movement and forces
<b>Week 6</b>	Animals and humans	Electricity	Materials – states of matter
<b>Week 7</b>	Animals and humans	Electricity	Materials – states of matter
<b>Week 8</b>	Animals and humans	Plants	Materials- states of matter
<b>Week 9</b>	Animals and humans	Plants	Living things
<b>Week 10</b>	Evolution and inheritance	Plants	Living things

Class 3 – Cycle A			
	Term 1	Term 2	Term 3
<b>Week 1</b>	<b>Animals and humans</b> Digestive system	<b>Materials</b> Solid liquid or gas	<b>Electricity</b> Electrical circuits
<b>Week 2</b>	<b>Animals and humans</b> Digestive system functions	<b>Materials</b> Investigating gases	<b>Electricity</b> Switches
<b>Week 3</b>	<b>Animals and humans</b> Types and functions of teeth	<b>Evolution and Inheritance</b> Inheritance	<b>Evolution and inheritance</b> Theory of evolution
<b>Week 4</b>	<b>Living things</b> Classification keys	<b>Evolution and inheritance</b> Adaptations	<b>Evolution and inheritance</b> Theory of evolution
<b>Week 5</b>	<b>Living things</b> Classifying vertebrates and invertebrates	<b>Light</b> How we see	<b>Animals and humans</b> Human timeline
<b>Week 6</b>	<b>Animals and humans</b> Food chains	<b>Light</b> Reflecting light	<b>Animals and humans</b> Growth of babies
<b>Week 7</b>	<b>Forces</b> Identifying forces	<b>Animals and humans</b> Circulatory system parts and functions	<b>Living things</b> Local habitat
<b>Week 8</b>	<b>Forces</b> Gravity	<b>Animals and humans</b> Circulatory system parts and functions	<b>Living things</b> Environmental changes
<b>Week 9</b>	<b>Earth and space</b> Spherical bodies	<b>Materials</b> Heating and cooling	<b>Living things</b> Mammals
<b>Week 10</b>	<b>Earth and space</b> The planets	<b>Materials</b> Changing states of water	<b>Sound</b> Making sound - vibrations
<b>Week 11</b>	<b>Forces</b> Magnets	<b>Materials</b> Keeping cool	<b>Sound</b> Hearing sounds

Class 3 – Cycle B			
	Term 1	Term 2	Term 3
Week 1	<b>Forces</b> Air resistance	<b>Earth and space</b> Movement of the Moon	<b>Evolution and inheritance</b> Evidence supporting evolution
Week 2	<b>Forces</b> Water resistance	<b>Animals and humans</b> Transporting water and nutrients	<b>Evolution and inheritance</b> Human evidence of evolution
Week 3	<b>Forces</b> Friction	<b>Animals and humans</b> Changes – puberty and old age	<b>Evolution and inheritance</b> Human intervention
Week 4	<b>Forces</b> Mechanisms	<b>Animals and humans</b> Gestation periods	<b>Living things</b> Classification and the Linnaean system
Week 5	<b>Living things</b> Making new plants	<b>Materials</b> Brighter bulbs	<b>Living things</b> Animal characteristics
Week 6	<b>Living things</b> Making new plants	<b>Electricity</b> Wire length investigation	<b>Living things</b> Microorganisms
Week 7	<b>Light</b> Refraction	<b>Living things</b> Metamorphosis	<b>Materials</b> Dissolving
Week 8	<b>Light</b> Seeing colours	<b>Living things</b> Comparing life cycles	<b>Materials</b> Separating mixtures
Week 9	<b>Light</b> The spectrum	<b>Sound</b> Pitch	<b>Materials</b> Irreversible changes
Week 10	<b>Earth and space</b> Geocentric or heliocentric	<b>Sound</b> How sound travels	<b>Animals and humans</b> Drugs and alcohol, and how to lead a healthy lifestyle
Week 11	<b>Earth and space</b> Night and day	<b>Sound</b> Absorbing sound	<b>Animals and humans</b> Drugs and alcohol, and how to lead a healthy lifestyle