



Foundation (EYFS)

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Biology: animals and plants 1 - What does an earthworm do?	Biology: animals and plants 6 - Who are my parents?	Chemistry: objects and materials 1 - Who lives here?	Chemistry: objects and materials 6 - How do you make a good bubble?	Physics: light space, electricity and movement 1 - What happens at night?	Physics: light space, electricity and movement 6 - What floats?
Biology: animals and plants 2 - Who has stripes?		Chemistry: objects and materials 2 - Which hat is best to wear today?		Physics: light space, electricity and movement 2 - What is in the sky?	
Biology: animals and plants 3 - What is inside an egg?		Chemistry: objects and materials 3 - What melts?		Physics: light space, electricity and movement 3 - What is in the moon?	
Biology: animals and plants 4 - What am I made of?	Our changing world: the local environment - What is the weather like today? (Winter)	Chemistry: objects and materials 4 - What happens when you mix it?		Physics: light space, electricity and movement 4 - What makes it move?	
Our changing world: the local environment - What is happening to the trees? (Autumn)		Our changing world: the local environment - What is happening to the trees? (Spring)		Our changing world: the local environment - What is the weather like today? (Summer)	
Biology: animals and plants 5 - Is all of a plant green?		Chemistry: objects and materials 5 - What goes through?		Physics: light space, electricity and movement 5 - How does my toy work?	
Our changing world: the local environment - What can I grow for my dinner?					



Year 1

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Seasons 1 - Are all leaves the same?	Seasons 2 - Which animals share our space?	Seasons 3 - Do all trees shed their leaves?	Seasons 4 - Are all flowers the same?	Seasons 5 - Which birds visit our bird feeders?	Seasons 6 - How has our space changed over the year?
Human body and senses 1 - Is everyone's body the same?	Naming and describing materials 1 - What material is this?	Properties and uses of materials 1 - Can the same object be made from different materials?	Animals (vertebrates) 1 - Who's who in the animal world?	Identifying plants and their parts 1 - What wild and garden plants can we find around our school?	Sustainability / STEM project
Human body and senses 2 - How can we explore the world using our sense of touch?	Naming and describing materials 2 - What material is this?	Properties and uses of materials 2 - What properties do materials have?	Animals (vertebrates) 2 - What's so special about birds?	Identifying plants and their parts 2 - What parts of a plant grow above the ground?	
Human body and senses 3 - What can we hear?	Naming and describing materials 3 - Is all paper the same?	Properties and uses of materials 3 - Does it bend or stretch?	Animals (vertebrates) 3 - What makes an amphibian an amphibian?	Identifying plants and their parts 3 - What part of a plant grows under the ground?	
Human body and senses 4 - What smells do we like and dislike?	Naming and describing materials 4 - Is all fabric the same?	Properties and uses of materials 4 - Do all materials get wet?	Animals (vertebrates) 4 - Do fish have fingers?	Identifying plants and their parts 4 - Why are trees plants?	
Human body and senses 5 - What differences can our tongues taste?	Naming and describing materials 5 - How can we group objects made of different materials?		Animals (vertebrates) 5 - Are humans mammals?	Identifying plants and their parts 5 - What are the similarities and differences between plants that have flowers?	



Year 2

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Local habitats 1 - Are the things I find alive, have they never been alive or were they once alive?	Choosing materials 1 - Is that a good choice of material?	Growing seeds and bulbs 1 - How do plants grow and change over time?	Growing up (animals and humans) 1 - How do animals change as they grow?	Changing materials 1 - How can I change the shape of an object?	Growing healthy plants 1 - How can we care for our plants?
Local habitats 2 - What lives in my tree?	Choosing materials 2 - Which ball bounces highest?	Growing seeds and bulbs 2 - How are seeds and bulbs different?	Growing up (animals and humans) 2 - What do animals need to survive?	Changing materials 2 - What properties allow a material to be changed?	Growing healthy plants 2 - Do mature plants need light?
Local habitats 3 - What animals live in this woody habitat?	Choosing materials 3 - Which materials are good for a toddler's play dungarees?	Growing seeds and bulbs 3 - What do seeds need to germinate?	Growing up (animals and humans) 3 - How can we sort food into groups?	Changing materials 3 - Which material is fit for purpose?	Growing healthy plants 3 - Does temperature affect the growth of mature plants?
Local habitats 4 - What animals live in this grassy habitat?	Choosing materials 4 - Who develops new materials?	Growing seeds and bulbs 4 - How tall will they grow?	Growing up (animals and humans) 4 - How do humans stay clean?	Changing materials 4 - What can pushes and pulls do?	Growing healthy plants 4 - Do mature plants need water?
Local habitats 5 - What do animals that live in the woods eat?		Growing seeds and bulbs 5 - What have we learnt about how a seed germinates?	Growing up (animals and humans) 5 - How can humans stay active?		Growing healthy plants 5 - What have we learnt about what mature plants need?
Local habitats 6 - What do the animals that live in the pond eat?			Growing up (animals and humans) 6 - How can humans stay healthy?		



Year 3

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Rocks, soils and fossils 1 - How are rocks different and what rock is this?	Light and shadows 1 - What do we need to see?	Forces: friction and magnets 1 - What makes it move?	Movement and nutrition 1 - What nutrients do we get from our food?	Flowering plants and plant growth 1 - What do leaves do?	Flowering plants life cycle 1 - What is inside a flower?
Rocks, soils and fossils 2 - What are rocks used for?	Light and shadows 2 - Which object is the most reflective?	Forces: friction and magnets 2 - How long does a top spin on different surfaces?	Movement and nutrition 2 - What nutrients are in school midday meals?	Flowering plants and plant growth 2 - What do roots and stems do?	Flowering plants life cycle 2 - What is animal pollination?
Rocks, soils and fossils 3 - How are soils different?	Light and shadows 3 - How are shadows made?	Forces: friction and magnets 3 - How well can an object slide on different surfaces?	Movement and nutrition 3 - What is in a human skeleton?	Flowering plants and plant growth 3 - What are the functions of a part of a flowering plant?	Flowering plants life cycle 3 - What is wind pollination?
Rocks, soils and fossils 4 - Which soils hold water?	Light and shadows 4 - How is my shadow like me?	Forces: friction and magnets 4 - How do magnets affect each other?	Movement and nutrition 4 - How do muscles help humans to move?	Flowering plants and plant growth 4 - What happens if plants do not have enough space?	Flowering plants life cycle 4 - What are fruits?
Rocks, soils and fossils 5 - What is this fossil?	Light and shadows 5 - How can we change the size of a shadow?	Forces: friction and magnets 5 - Which materials are magnetic?	Movement and nutrition 5 - How are vertebrate and invertebrate bodies supported?	Flowering plants and plant growth 5 - How are plants different?	Flowering plants life cycle 5 - How are seeds dispersed?
Rocks, soils and fossils 6 - Who was Mary Anning and how did she become a palaeontologist?		Forces: friction and magnets 6 - How strong are the magnets?	Movement and nutrition 6 - How are human skeletons different to other vertebrates?		



Year 4

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p>Changes of state 1</p> <ul style="list-style-type: none"> - Is this material a liquid or a solid? 	<p>Electricity - circuits 1</p> <ul style="list-style-type: none"> - What makes an appliance work? 	<p>Human impact on the environment 1</p> <ul style="list-style-type: none"> - What is the impact of litter on our school? 	<p>Digestion and food chains 1</p> <ul style="list-style-type: none"> - Where does all the food we eat go? 	<p>Sound 1</p> <ul style="list-style-type: none"> - How are sounds made? 	<p>Classification of plants and animals 1</p> <ul style="list-style-type: none"> - How are living things classified?
<p>Changes of state 2</p> <ul style="list-style-type: none"> - How is temperature measured? 	<p>Electricity - circuits 2</p> <ul style="list-style-type: none"> - How can you light the bulb? 	<p>Human impact on the environment 2</p> <ul style="list-style-type: none"> - How do materials change over time? 	<p>Digestion and food chains 2</p> <ul style="list-style-type: none"> - What teeth do humans have? 	<p>Sound 2</p> <ul style="list-style-type: none"> - How does sound reach our ears? 	<p>Classification of plants and animals 2</p> <ul style="list-style-type: none"> - How are vertebrates classified?
<p>Changes of state 3</p> <ul style="list-style-type: none"> - What difference does temperature make to how quickly the block of ice melt? 	<p>Electricity - circuits 3</p> <ul style="list-style-type: none"> - What does a switch do? 	<p>Human impact on the environment 3</p> <ul style="list-style-type: none"> - How do micro-plastics get into the food chain? 	<p>Digestion and food chains 3</p> <ul style="list-style-type: none"> - What do teeth do in the digestive system? 	<p>Sound 3</p> <ul style="list-style-type: none"> - How can we change the volume? 	<p>Classification of plants and animals 3</p> <ul style="list-style-type: none"> - How are invertebrates classified?
<p>Changes of state 4</p> <ul style="list-style-type: none"> - What are melting and freezing? 	<p>Electricity - circuits 4</p> <ul style="list-style-type: none"> - Why doesn't the circuit work? 	<p>Human impact on the environment 4</p> <ul style="list-style-type: none"> - How can we prevent micro plastics from getting into our seas and oceans? 	<p>Digestion and food chains 4</p> <ul style="list-style-type: none"> - What happens to food after we put it in our mouths? 	<p>Sound 4</p> <ul style="list-style-type: none"> - How does the volume change when we move away? 	<p>Classification of plants and animals 4</p> <ul style="list-style-type: none"> - Can you use a branching key?
<p>Changes of state 5</p> <ul style="list-style-type: none"> - Are spaces empty? 	<p>Electricity - circuits 5</p> <ul style="list-style-type: none"> - Which materials conduct? 	<p>Human impact on the environment 5</p> <ul style="list-style-type: none"> - How can we clean up birds affected by an oil spill? 	<p>Digestion and food chains 5</p> <ul style="list-style-type: none"> - What do animals eat? 	<p>Sound 5</p> <ul style="list-style-type: none"> - How can we change the pitch? 	<p>Classification of plants and animals 5</p> <ul style="list-style-type: none"> - What is this living thing?
<p>Changes of state 6</p> <ul style="list-style-type: none"> - What is evaporation? 			<p>Digestion and food chains 6</p> <ul style="list-style-type: none"> - What do animal teeth tell us? 	<p>Sound 6</p> <ul style="list-style-type: none"> - What affects the pitch of a plucked note? 	



Changes of state 7 - Where did water come from?					
Changes of state 8 - Where does rain come from?					



Year 5

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p>Forces and mechanisms 1</p> <ul style="list-style-type: none"> - What is the friction between different surfaces? 	<p>Properties and uses of materials 1</p> <ul style="list-style-type: none"> - How can we compare and group materials? 	<p>Earth and space 1</p> <ul style="list-style-type: none"> - What's in space? 	<p>Plant and animal life cycles 1</p> <ul style="list-style-type: none"> - How do flowering plants produce seeds? 	<p>Separating mixtures and changing materials 1</p> <ul style="list-style-type: none"> - How can we separate mixtures? 	<p>Human growth 1</p> <ul style="list-style-type: none"> - How do newborn babies change into teenagers?
<p>Forces and mechanisms 2</p> <ul style="list-style-type: none"> - Why do some objects fall faster than others? 	<p>Properties and uses of materials 2</p> <ul style="list-style-type: none"> - Which materials did the builders use when constructing our school and why? 	<p>Earth and space 2</p> <ul style="list-style-type: none"> - How do the planets move? 	<p>Plant and animal life cycles 2</p> <ul style="list-style-type: none"> - Do all plants have the same number of reproductive parts? 	<p>Separating mixtures and changing materials 2</p> <ul style="list-style-type: none"> - What happens we mix liquids and solids? 	<p>Human growth 2</p> <ul style="list-style-type: none"> - How do girls become women?
<p>Forces and mechanisms 3</p> <ul style="list-style-type: none"> - How does the size of the canopy affect the time it takes a parachute to fall? 	<p>Properties and uses of materials 3</p> <ul style="list-style-type: none"> - Which liquid is the thickest? 	<p>Earth and space 3</p> <ul style="list-style-type: none"> - How does the position of the Sun in the sky change? 	<p>Plant and animal life cycles 3</p> <ul style="list-style-type: none"> - How can we grow more plants without using seeds? 	<p>Separating mixtures and changing materials 3</p> <ul style="list-style-type: none"> - What makes a difference to how fast sugar or salt dissolves? 	<p>Human growth 3</p> <ul style="list-style-type: none"> - How do boys become men?
<p>Forces and mechanisms 4</p> <ul style="list-style-type: none"> - How does the shape of an object affect its movement in water? 	<p>Properties and uses of materials 4</p> <ul style="list-style-type: none"> - Who invents things? 	<p>Earth and space 4</p> <ul style="list-style-type: none"> - What causes day and night? 	<p>Plant and animal life cycles 4</p> <ul style="list-style-type: none"> - How do birds change over their lifetime? 	<p>Separating mixtures and changing materials 4</p> <ul style="list-style-type: none"> - How can we clean up contaminated water? 	<p>Human growth 4</p> <ul style="list-style-type: none"> - What is the human lifecycle?
<p>Forces and mechanisms 5</p> <ul style="list-style-type: none"> - How does the number of pulleys affect the forces needed to lift a load? 	<p>Properties and uses of materials 5</p> <ul style="list-style-type: none"> - Can the same container keep things cold and hot things hot? 	<p>Earth and space 5</p> <ul style="list-style-type: none"> - How does the Moon move? 	<p>Plant and animal life cycles 5</p> <ul style="list-style-type: none"> - Do all mammals have the same gestation period? 	<p>Separating mixtures and changing materials 5</p> <ul style="list-style-type: none"> - What makes a change non-reversible? 	
<p>Forces and mechanisms 6</p> <ul style="list-style-type: none"> - How does the number of pulleys affect the forces needed to lift a load? 	<p>Properties and uses of materials 6</p> <ul style="list-style-type: none"> - Which materials are absorbent, permeable or waterproof? 	<p>Earth and space 6</p> <ul style="list-style-type: none"> - What patterns can we find in data about the planets? 	<p>Plant and animal life cycles 6</p> <ul style="list-style-type: none"> - How do amphibians change throughout their lifecycle? 	<p>Separating mixtures and changing materials 6</p> <ul style="list-style-type: none"> - How much gas can be produced by a non-reversible change? 	



Forces and mechanisms 7 - How do gears work?			Plant and animal life cycles 7 - Do all insects go through the same lifecycle?		
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Year 6

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Classification of living things 1 - How can we sort the mess?	Evolution and inheritance 1 - How are living things different?	What light does 1 - How does light travel?	Human circulation 1 - What is blood made of?	Electricity: changing circuits 1 - How do we light the lamp?	Body health 1 - How do we make healthy food choices?
Classification of living things 2 - What plants are there other than flowering plants?	Evolution and inheritance 2 - How is an organism adapted to live in its habitat?	What light does 2 - What can we change about a shadow?	Human circulation 2 - What is the circulatory system and what does it do?	Electricity: changing circuits 2 - How can we change a circuit?	Body health 2 - What can happen if you don't eat a balanced diet?
Classification of living things 3 - How can we classify animals?	Evolution and inheritance 3 - How do an animal's adaptations help it to survive?	What light does 3 - What might affect the size of a shadow?	Human circulation 3 - What is a heart and what does it do?	Electricity: changing circuits 3 - How can we change the brightness of a lamp?	Body health 3 - How does physical activity affect heart rate?
Classification of living things 4 - What else is living besides plants and animals?	Evolution and inheritance 4 - What can fossils tell us?	What light does 4 - What affects the size of a shadow?	Human circulation 4 - What are blood vessels and valves and what do they do?	Electricity: changing circuits 4 - How can we change how other components work?	Body health 4 - How does smoking or vaping affect your health?
Classification of living things 5 - How can we identify living things?	Evolution and inheritance 5 - How does evolution happen?	What light does 5 - How is light reflected?	Human circulation 5 - What did William Harvey find out about the circulatory system?	Electricity: changing circuits 5 - How can we predict which circuit will have the brighter lamp?	
Classification of living things 6 - What lives here?	Evolution and inheritance 6 - How did Wallace and Darwin come up with the idea of natural selection?	What light does 6 - How do we see objects?			



Classification of living things 7 - Where do these organisms fit in my key?					
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