



Monkston Primary School Science Curriculum Overview



	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
EYFS	<p>All About Me</p> <p>The Human Body: facial features, body parts and the senses.</p> <p>Seasons of the year: Autumn, deciduous and evergreen trees. Observing leaves using magnifying glasses, leaves changing colour.</p>	<p>Journeys</p> <p>Forces: push, pull, twist, air transport, water transport.</p> <p>Seasons of the year: Winter. Animal hibernation, why do some animals hibernate? How do other animals survive winter?</p> <p>Transport in the winter: snow ploughs, gritting roads, snow tyres.</p>	<p>Space</p> <p>Our Planet: Earth, land and sea, plants and animals, weather, gravity</p> <p>Space: the moon, the sun, the planets in our solar system, space travel, astronauts.</p> <p>Seasons of the year: the first signs of spring, snowdrops, cherry blossom, buds and flowers, birds nesting, bees, lighter evenings.</p>	<p>Growing and Changing</p> <p>Growing and Changing: how people and animals change as they grow, life cycles of a butterfly, identify and label animals and their young.</p> <p>Plants: how they grow from seeds and bulbs, what plants need to grow, identifying parts of plants, identify trees and plants that grow locally, draw pictures of local plants.</p>	<p>Kings and Queens</p> <p>Seasons of the year: Summer. Signs of summer, flowers, warmer days, light evenings, butterflies, bees and birds.</p> <p>Design a garden for a king or queen: What could we grow? What would we include? Sketch ideas and write about the design.</p>	<p>Stories From the Past</p> <p>Seasons of the year: Summer. How we stay safe in the sun, sunscreen, hats, sunglasses, water safety.</p> <p>Changing states of matter: why do our ice lollies melt?</p>

Year 1	The Human Body 1. Our body and our senses 2. Eyes and sight 3. Ears and hearing 4. Touch, taste and smell 5. Understanding sensory impairment	Animals and Their Needs 1. Common animals 2. Grouping animals 1 3. Grouping animals 2 4. Animals as pets 5. Describing animals	Seasons and Weather 1. The four seasons 2. Tools to record the weather 3. Using a graph to show information 4. Clouds 5. Weather forecasting 6. Dangerous weather	Taking Care of the Earth 1. Taking Care of the Earth 2. Earth's Natural Resources 3. Logging 4. Pollution 5. Recycling	Plants 1. What plants need 2. Parts of plants 3. Seeds 4. Deciduous and evergreen trees 5. Plants we eat	Materials and Magnets 1. Everyday materials 2. Properties of materials 3. Uses of materials 4. Magnets 5. Investigation
Year 2	What's in your Habitat? 1. What is in your habitat? 2. What do different animals eat in their habitats? 3. Where can I live?	Materials – Good Choices 1. Describing objects 2. Describing materials 3. Explaining good material choices 4. Comparing materials 5. Testing different fabrics 6. Exploring waterproof materials 7. Comparing bouncy balls	Materials – Shaping Up 1. Changing shape 2. Describing properties 3. Testing flexibility of objects 4. How materials are used	Growing Up 1. What do babies need? 2. How have we changed? 3. How do we change throughout our lives? 4. Do older children have bigger heads? Take Care 1. How can we sort this food? 2. What food should we eat? 3. How can we stay fit? 4. How can we stay clean?	The Apprentice Gardener 1. What will the seeds grow into? 2. What do gardeners need to know? 3. How should we plant the seeds? 4. What is happening to our seeds? 5. How tall will they grow? 6. How can we care for our plants? 7. What happens when a seed germinates? 8. Does it matter how we plant the seeds? 9. How expert are we? 10. What do plants need to grow and be healthy?	

Year 3	The Power of Forces	Amazing Bodies	Rock Detectives	How Does Your Garden Grow?	Can You See Me?	Our Changing World
	<ol style="list-style-type: none"> 1. How can you make it start to move? 2. What's making it move? 3. How well can an object slide? 4. Which materials are magnetic? 5. What can magnets do? 6. How strong are the magnets? 7. How do magnets affect each other? 	<ol style="list-style-type: none"> 1. What would you need to survive? 2. What do we need to eat to stay healthy? 3. How does an adventurer stay healthy? 4. Why do we have a skeleton? 5. Can you design a new vertebrate species? 6. How do muscles help us move? 7. Do our bodies affect how well we can do things? 8. How good are we at different activities? 	<ol style="list-style-type: none"> 1. What types of rock are there? 2. Which rock is which? 3. How are rocks used around our school? 4. Are all rocks as hard as one another? 5. Are all rocks waterproof? 6. How do rocks change over time? 7. How is soil made? 8. Why do some soils hold water? 9. What is a fossil and how are they formed? 	<ol style="list-style-type: none"> 1. What do we know about plants and leaves? 2. What would happen if a plant lost its leaves? 3. Are all roots the same? 4. Where does water go? 5. Why do plants need stems? 6. Where do new plants come from? 7. What do flowers have in common? 8. What do bees do? 9. How are seeds dispersed? 10. Can plants survive without leaves? 	<ol style="list-style-type: none"> 1. What do we need to see? 2. Which is the shiniest? 3. How can we make things easier to see at night? 4. What do mirrors do? 5. How can I make a shadow? 6. Can you change the shape of a shadow? 7. How can you change the size of a shadow? 8. What makes the best sunglasses? 9. Making sunglasses. 	<ol style="list-style-type: none"> 1. How do leaves change through the year? 2. What seeds can we find through the year? 3. How do flowers change through the year? 4. What colour are berries? 5. How often do insects visit plants? 6. What plants grow in the school grounds during the year? 7. How do sunflower seeds and plants grow and change over time?

Year 4	Where Does All That Food Go?	Human Impact	In a State	Good Vibrations	Who Am I?	Switched On
	<ol style="list-style-type: none"> 1. What do we know about food? 2. Where does the food go inside your body? 3. What sort of teeth do we have? 4. Why do we have different types of teeth? 5. How can we look after our teeth? 6. What do animals eat? 7. What do animals' teeth tell us? 8. How is food broken down? 9. How can we model the digestive system? 	<ol style="list-style-type: none"> 1. What impact do humans have locally? 2. How can we find out about litter? 3. What types of litter are dropped locally? 4. Why does clearing litter matter? 5. What happens when a food chain is broken? 6. What is the impact of habitat destruction in other parts of the world? 	<ol style="list-style-type: none"> 1. What are the properties of solids, liquids and gases? 2. What makes a difference to how fast ice melts? 3. What are melting and freezing? 4. Are spaces really empty? 5. What state am I in? 6. How can we get it dry? 7. What is evaporation? 8. What is boiling? 9. Where did water and rain come from? 10. Changes of state. 	<ol style="list-style-type: none"> 1. What do we know about sounds? 2. How are sounds made? 3. How do sounds travel? 4. How can we make a sound louder and quieter? 5. How do sounds change as we move away from the source? 6. How can we change the pitch of a plucked note? 7. How can we use air to make music? 	<ol style="list-style-type: none"> 1. Who are you? 2. Who lives here? 3. How are vertebrates grouped? 4. How are invertebrates grouped? 	<ol style="list-style-type: none"> 1. What makes it work? 2. Can you light the bulb? 3. How does a circuit work? 4. Why doesn't it work? 5. What does a switch do? 6. What can we use instead of wires? 7. What types of material conduct electricity? 8. How are electrical conductors and insulators used? 9. What do we now know about electricity?

Year 5	Circle of Life	Reproduction in Plants	Marvellous Mixtures	All Change!	Feel the Force	The Earth & Beyond
	<ol style="list-style-type: none"> 1. What is a life cycle? 2. What do we know about the life cycle of mammals? 3. What do we know about the life cycles of amphibians? 4. What do we know about the life cycles of insects? 5. What do we know about the life cycles of birds? 6. What makes a successful life cycle? 7. How are humans helping endangered animals to complete their life cycle? 	<ol style="list-style-type: none"> 1. How do flowering plants reproduce? 2. Are all flowers the same? 3. Do all plants reproduce by producing seeds? 4. How do amphibians and insects reproduce? 5. How do mammals and birds reproduce? 6. How does the human life cycle compare with that of other mammals? <p data-bbox="667 791 864 815">Everyday Materials</p> <ol style="list-style-type: none"> 1. Which materials are used in our school? 2. Weight problem: what is the best carrier bag? 3. What is the best type of plate to use? 4. Can the same container keep cold things cold and hot things hot? 5. What will happen if we add water to a material? 6. Nappy ending: what's the best brand of nappy? 	<ol style="list-style-type: none"> 1. How can we separate mixtures? 2. What happens when we mix liquids and solids? 3. What makes a difference to how fast sugar or salt dissolves? 4. How can we get drinkable water from seawater? 5. How can we purify materials? 	<ol style="list-style-type: none"> 1. Are the changes that happen around us reversible or irreversible? 2. How much gas can be produced by an irreversible change? 3. How long does it take for iron nails to rust? 4. What happens when a candle burns? 5. How long does it take for things to rust? 	<ol style="list-style-type: none"> 1. How can we measure forces? 2. Why does an object fall? 3. What makes things move? 4. How can we slow down falling objects? 5. Does the shape of an object affect its movement in a liquid? 6. Do all heavy things sink? 7. How far can you stretch? 8. How can we use levers to help us? 9. How can we lift a heavy load? 	<ol style="list-style-type: none"> 1. What's in space? 2. What is a year? 3. What is a day? 4. How does the sun help us to measure time? 5. What time is it around the world? 6. Why do we have seasons? 7. What are our conclusions about sunrise and sunset times? 8. Why does the moon change shape?

Year 6	The Human Body	The Classification of Living Things	Electricity	Light	Reproduction	Evolution
	<ol style="list-style-type: none"> 1. The Heart: circulation of blood. 2. Blood vessels and transport 3. Blood pressure and heart rate 4. Heart rate investigation 5. Components of blood 	<ol style="list-style-type: none"> 1. Classifying organisms 2. Cells: plant and animal cells 3. Taxonomy 4. Vertebrates 5. Invertebrates 	<ol style="list-style-type: none"> 1. Simple Series Circuits 2. Voltage 3. Switches 4. Planning an investigation 5. Investigation 	<ol style="list-style-type: none"> 1. How light travels 2. How we see 3. Shadows and their shapes 4. The colour of light 5. Making a periscope 	<ol style="list-style-type: none"> 1. Asexual reproduction 2. Sexual reproduction in non-flowering plants 3. Sexual reproduction in flowering plants 4. Reproduction in animals 5. Growth stages 	<ol style="list-style-type: none"> 1. Fossils and Mary Anning 2. Inheritance 3. Adaptation 4. Charles Darwin 5. Alfred Wallace