

Science Subject Overview

	Autumn 1		Spring 1		Summer	
Kingfisher Years 1 and 2 Year A	Everyday Materials 1 (6) <ul style="list-style-type: none"> • What are materials? • How are materials different? • What are objects made from? • How can we sort materials? • Which material would be best for an umbrella? • Which material would be best for curtains? 		Animals, including humans 1 (6) <ul style="list-style-type: none"> - What is this animal? - How are animals different? - Do all animals eat the same thing? - What are our body parts called? - What are senses? - Are all humans the same? Living things and their habitats 2 (6) <ul style="list-style-type: none"> - Is it living, dead or never been alive? - What is a microhabitat? - How are habitats different around the world? - What conditions do woodlice prefer? - How are living things adapted to their habitat? What is a food chain?		Plants 2 (5) <ul style="list-style-type: none"> - Which plants can we eat? - Are all seeds the same? - What do plants need? - Where will they grow? How do plants grow and change?	
Kingfisher Years 1 and 2 Year B	Seasonal changes 1 (2) <ul style="list-style-type: none"> • What is Autumn? • What is Winter? Materials 2 (5) <ul style="list-style-type: none"> • What are materials? • What are things made from? • Which material should the pigs make their house from? • Which material will protect Humpty Dumpty? • How can we change materials? 		Seasonal changes 1 (1) <ul style="list-style-type: none"> - What is Spring? Animals including humans 2 (8) <ul style="list-style-type: none"> - What do humans need? - What are offspring? - How do animals change as they grow into adults? - Do we all grow the same? - Do we need to exercise? - What is a healthy diet? - Why do we need to have good hygiene? How can we feel better when we are ill?		Seasonal changes 1 (3) <ul style="list-style-type: none"> - What is Summer? - Rain - Seasonal changes Plants 1 (8) <ul style="list-style-type: none"> - What is a plant? - What are the parts of a plant called? - Do plants grow? - Do wild plants grow in our local area? - How can we group plants? - Can we eat plants? - Are trees a type of plant? What is a leaf?	
Kestrel Years 3 and 4 Year A	Rocks and soils 3 (6) - Chemistry <ul style="list-style-type: none"> - What are rocks? - Are all rocks the same? - How are rocks formed? - Which rocks make up the Earth? - What are soils? 	Animals including humans 3 (5) - Biology <ul style="list-style-type: none"> - How does our skeleton help us? - Do our bones affect what we can do? - What do our muscles do? - Do all animals have the same skeleton? 	Plants 3 (6) - Biology <ul style="list-style-type: none"> - What do plants need? - Do the different parts of the plant have a function? - What are roots? 	Electricity 4 (5) Physics <ul style="list-style-type: none"> - Which appliances use electricity? - How can I make a simple circuit? - Why don't some circuits work? 	Sound 4 (7) Physics <ul style="list-style-type: none"> - How are sounds made? - What is a sound vibration? - What is inside your ear? - Does the size of the pinna 	

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	How are fossils formed?	<ul style="list-style-type: none"> - What types of nutrition do we need? 	<ul style="list-style-type: none"> - How do plants transport water? - How do plants reproduce? - How are seeds dispersed? 	<ul style="list-style-type: none"> - How can we test if a material is a conductor or an insulator? <p>How do switches affect a circuit?</p>	<p>affect the volume of the sound?</p> <ul style="list-style-type: none"> - What is pitch? - What is volume? - Which material is best at muffling sound? 	
Kestrel Years 3 and 4 Year B	<p>Animals including Humans 4 (5) - Biology</p> <ul style="list-style-type: none"> - What is the digestive system? - Why are teeth different shapes? - What drink causes the most tooth decay? - What is a food chain? <p>How can I construct a food chain?</p>	<p>Light 3 (6) - Physics</p> <ul style="list-style-type: none"> - What is a light source? - What is reflected light? - Is the Sun dangerous? - What is a shadow? - Does moving the light source above the object make the object's shadow longer? <p>How do mirrors work?</p>	<p>States of Matter 4 (7) - Chemistry</p> <ul style="list-style-type: none"> - What are solids, liquids and gases? - Do all liquids behave the same? - What is a thermometer used for? - How do materials change state? - What is the water cycle? - Do all liquids evaporate? <p>Does temperature affect the rate of evaporation?</p>		<p>Magnets 3 (6) - Physics</p> <ul style="list-style-type: none"> - What is a force? - Do objects move the same on different surfaces? - How do magnetic forces work? - Which materials are magnetic? - Do magnets attract each other? - Are all magnets the same strength? 	<p>Living things and their habitats 4 (6) - Biology</p> <ul style="list-style-type: none"> - What are the seven life processes? - How can we sort and group animals? - What are vertebrate animals? - Which living things can be found in the local area? - What is a classification key? <p>How is our environment changing?</p>
Falcons Years 5 and 6 Year A	<p>Earth and space 5 (6) - Physics</p> <ul style="list-style-type: none"> - What are the names of the planets in the solar system? 	<p>Electricity 6 – Physics</p> <ul style="list-style-type: none"> - How do I draw a scientific diagram of a circuit? - How does voltage in a circuit affect 	<p>Animals including humans - Heart and Blood 6 (6) - Biology</p> <ul style="list-style-type: none"> - What is the circulatory system? - How does our heart work? 	<p>Forces 5 (6) - Physics</p> <ul style="list-style-type: none"> - What is gravity? - What is friction? - Friction investigation - Identify the effects of air resistance 	<p>Living things and their Habitats 6 (6) - Biology</p> <ul style="list-style-type: none"> - How are animals classified? - What is a classification key? - How can we classify plants? - Is yeast a living microorganism? - What are the five main groups of microorganisms? <p>Who was Carolus Linnaeus?</p>	

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	<ul style="list-style-type: none"> - How do we know the Earth is a sphere? - How long does it take for Earth (and other planets) to orbit the Sun once? - What is the largest object that orbits the Earth? - Why is there day and night on Earth? - Does the Moon change shape? 	<p>the brightness of a bulb?</p> <ul style="list-style-type: none"> - How do I plan a fair test experiment to investigate variations in how components function? - How do I write a conclusion for my investigation? <p>What is renewable and non-renewable energy?</p>	<ul style="list-style-type: none"> - How does exercise affect my heart rate? - What does the blood transport around the body? - How can I live a healthy lifestyle? - What can damage our health? 	<ul style="list-style-type: none"> - What is water resistance? <p>Gears, levers and pulleys</p>		
<p>Falcons Years 5 and 6 Year B</p>	<p>Evolution 6 (6) - Biology</p> <ul style="list-style-type: none"> • How are plants adapted to their environment? • How are animals adapted to their environment? • What is natural selection, how does this lead to evolution? • How do adaptations lead to evolution? • What characteristics can you inherit from your parents? • How can fossils help us explain evolution? 		<p>Light 6 (5) - Physics</p> <ul style="list-style-type: none"> - How does light travel? - Which materials make the best reflectors? - How does the eye work? - How do shadows change during the day? - Why do objects look different in water? <p>How do mirrors work?</p>	<p>Materials 5 (7) - Chemistry</p> <ul style="list-style-type: none"> - What are the properties of solids, liquids and gases? - How can I describe the properties of materials? - Which materials make the best thermal insulators? - Which materials are magnetic? - Which materials are soluble, and 	<p>Animals including humans 5 (4) - Biology</p> <ul style="list-style-type: none"> - How do humans change throughout their life? - How do we develop in the womb? - How do we change through puberty? - How do we change when we are senior? 	<p>Living things 5 (6) - Biology</p> <ul style="list-style-type: none"> - What are the seven life processes? - How do mammals reproduce? - Do animals reproduce in the same way? - How do plants reproduce? - What is a lifecycle? - What are the stages in the lifecycle of a plant?

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			<p>which are insoluble?</p> <ul style="list-style-type: none">- How can mixed materials be separated? <p>What is irreversible changes?</p>		
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