

Swalwell Primary School Medium term plan Science 2020 - 2021

Phase	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS						
KS1 Science	<p>Working Scientifically</p> <p>Seasonal Changes – ongoing</p> <p>Basic Skills</p> <ul style="list-style-type: none"> - Observing - Measuring - Recording <p>Seasonal changes – rain gauge, observe changes – leaves falling,</p> <p>Year 2 – Animals (Yr 1)</p>	Plants	<p>Animals</p> <p>India – what animals would you find in India? Are they different to animals you would find in the UK?</p>	Living things and their habitats	<p>Materials</p> <p>Grace Darling - What is the best material for a boat?</p>	<p>Working Scientifically</p> <p>Seasonal Changes – ongoing</p>
Year 3 Science	<p>Working Scientifically</p> <p>Basic Skills</p> <ul style="list-style-type: none"> - Observing - Measuring - Recording <p>Animals including humans (Yr 2)</p> <p>Working scientifically – impact of exercise on the body. Heart rate investigation.</p>	<p>Light</p> <p>Light sources – What light sources would romans have used? How is that different to today?</p> <p>Reflection - Romans used mirrors to send signals. Different types of mirror – curved, flat.</p>	<p>Rocks</p> <p>Link to topic – structure of earth.</p> <p>Formation of rocks</p>	Forces/magnets	<p>Animals inc. humans</p> <p>Link to DT – food groups, energy, balanced diet etc.</p>	<p>Plants</p> <p>Why did Egyptians plant crops on the banks of the Nile? What is soil? What do plants need to grow?</p>

Year 4 Science	Working Scientifically Basic Skills - Observing - Measuring - Recording Magnets (Yr 3)	Electricity Link to DT	States of Matter Water cycle States of matter – volcanic eruptions	Sound	Living things Link to DT – keeping teeth healthy. Which foods are good for teeth and digestive system?	Animals Which animals lived in Egypt? What were people's attitudes towards different animals?
Year 5 Science	Working Scientifically Basic Skills - Observing - Measuring - Recording States of Matter/Sound (Yr 4) Soundproofing investigation.	Properties and Changes of Materials Reversible/irreversible changes. Wood fires – soot Victoria Sponge Cake	Animals Link to keeping active and healthy – Ancient Greek athletics. How do our bodies change as we get older?	Earth and Space In ancient Greece, most people believed that the Earth was flat. Thales was a philosopher and mathematician who suggested that the Earth was spherical. Most people didn't believe him.	Living Things Farm to fork – life cycles	Forces Balanced forces – Viking games of tug of war and lifting heavy objects. Investigate shape and material of Viking long boat – Vikings would have to drag their boats across land – which surface would be best?
Year 6 Science	Working Scientifically Basic Skills - Observing - Measuring - Recording Space (Yr 5)	Electricity Link to Victorians – Joseph Swan and Thomas Edison. How did electricity in homes change people's lives?	Light Study of Greek mathematician Euclid - suggested that light always travels in straight lines. Can you prove it?	Animals Ancient Greek physician Herophilos – suggested that the body's movements were controlled by the brain not the heart as people thought. What role does the heart play? Herophilos' colleague Erasistratus observed that blood moved through the veins.	Living Things Farm to fork	Evolution Importance of fossils in Viking times. People in Viking times believed that some stones and fossils had healing powers. They often used fossil ammonites or belemnites, squid-like creatures from the Cretaceous period, as charms for protection. What can



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During Spring 1 and 2 units were changed due to remote learning for the majority of pupils. Units taught were mainly knowledge based.

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KS1 Science	Working Scientifically Seasonal Changes –	Plants	Materials Link to Great Fire of	Animals	Living things and their habitats	Working Scientifically Floating/sinking –

	ongoing Basic Skills - Observing - Measuring - Recording Seasonal changes – rain gauge, observe changes – leaves falling,		Gateshead – which material would be most suitable for building? Why are certain materials used when building houses?		Link to topic – habitats and climates throughout journey.	designing lifeboat/safety equipment. Seasonal Changes – ongoing
Year 3 Science	Working Scientifically Link to stone age – best rocks to grind flour Conditions for growing crops Design stone age boat	Rocks Link to stone age/mining	Plants Rainforests	Animals Differences and similarities in skeletons	Light Which materials work best for a sundial?	Forces/Magnets
Year 4 Science	Working Scientifically Link to stone age – best rocks to grind flour Conditions for growing crops Design stone age boat	Electricity Design a modern day miner’s lamp	Living Things Link to rainforests – which animals live here? Why?	States of Matter Water cycle – link to rainforests	Sound Making Anglo-Saxon instruments	Animals Link to DT – keeping teeth healthy. Which foods are good for teeth and digestive system?
Year 5 Science	Working Scientifically Design a submarine	Properties and changes of materials Explore materials used to build houses during WW11 – would houses have been safer if they were built with other materials?	Forces Link to DT and building bridges	Living things - life cycles/reproduction Focus on animals found in and around River Tyne	Earth and Space Link to Mayan study of astronomy	Animals – Puberty
Year 6 Science	Working Scientifically Design a submarine	Light Which materials would be best to create black out blinds?	Living things – classification Focus on animals found in and around River Tyne	Evolution How are animals adapted to live in different habitats?	Animals – circulatory	Electricity

