

Science and Technology Scope and Sequence - Revised

ES1		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
1	<p>The Way It Moves <i>Physical World</i> STe-1WS-S, STe-2DP-T, STe-5PW-ST</p> <p>What causes objects to move in different ways? 10 weeks *LINKS: History, Visual Arts</p>	<p style="text-align: center;">↑</p> <p style="text-align: center;">Investigating Digital Devices <i>Digital Technologies</i> STe-2DP-T STe-7DI-T</p> <p>How are digital technologies used in everyday life? How does following steps help to achieve a goal? 10 weeks *LINKS: History, Visual Arts</p> <p style="text-align: center;">↓</p>	<p>Energy & Forces <i>Physical World</i> ST1-1WS-S, ST1-2DP-T, ST1-8PW-S ST1-9PW-T</p> <p>What are the different forms of energy around us and how can we detect them? How are forces used for a purpose? 20 weeks *LINKS:</p>	<p>A Secret Code! <i>Digital Technologies</i> ST1-2DP-T ST1-3DP-T ST1-11DI-T</p> <p>What components might make up a digital system? What is data and how can we store and represent it? How can we record instructions for others to follow and understand? 15 weeks *LINKS: History, Mathematics</p>	<p>Energy As A Resource <i>Physical World</i> ST2-1WS-S, ST2-2DP-T, ST2-3DP-T ST2-8PW-ST ST2-9PW-ST</p> <p>How does light, heat and electrical energy make things happen? How can objects affect other objects with or without touching them? How can we use forces and energy in a product or system? 20 weeks *LINKS:</p>	<p>Data & Digital Systems <i>Digital Technologies</i> ST2-2DP-T, ST2-3DP-T ST2-11DI-T</p> <p>How do digital systems share information and instructions? Why do we represent data in different ways? How are algorithms used to develop digital systems? 10 weeks *LINKS: Mathematics</p>	<p>Earth and Space ST3-1WS-S ST3-10ES-S</p> <p>How does the Earth compare to other planets in the solar system? How do sudden geological changes and extreme weather events affect the Earth's surface? 15 weeks *LINKS: Geography, Mathematics</p>	<p>Transforming Energy <i>Physical World</i> ST3-1WS-S, ST3-2DP-T, ST3-8PW-ST ST3-9PW-ST</p> <p>How can we make a force stronger or weaker? What types of energy transformation can be observed? How can electricity be used in a product or system? 20 weeks *LINKS:</p>
	<p>All In The Materials <i>Material World</i> STe-1WS-S STe-2DP-T STe-4WM-ST</p> <p>What are some of the observable properties of materials? How do the properties of materials affect their use? 10 weeks *LINKS: History</p>		<p>Bend, Twist, Stretch! <i>Material World</i> ST1-1WS-S ST1-2DP-T ST1-6MW-S ST1-7MW-T</p> <p>What changes occur when materials are combined? How do the properties of materials determine their use? 10 weeks *LINKS: Mathematics</p>	<p>Our Changing Earth <i>Earth and Space</i> ST2-1WS-S, ST2-10ES-S</p> <p>How do natural processes and human interactions change the Earth's surface over time? What occurs as a result of the interactions between the Earth and the Sun? 15 weeks *LINKS: Geography, Mathematics</p>	<p>A Matter of Materials <i>Material World</i> ST3-1WS-S ST3-2DP-T ST3-6MW-S ST3-7MW-T</p> <p>How can the state of materials be changed and manipulated? What is the result of combining materials? Why are the characteristics of materials important when designing and producing? 10 weeks *LINKS: Geography, Mathematics</p>			
	<p>World of Weather <i>Earth & Space</i> STe-1WS-S STe-6ES-S</p> <p>How do daily and seasonal changes affect the environment? 10 weeks *LINKS: Geography</p>		<p>Living Things Grow & Change <i>Living World</i> ST1-1WS-S, ST1-2DP-T, ST1-4LW-S ST1-5LW-T</p> <p>What are the external features of living things? How can we improve a local environment to encourage living things to thrive? How do living things change as they grow? How do humans use plants and animals? 20 weeks *LINKS: Geography, PDH</p>	<p>Changing States <i>Material World</i> ST2-1WS-S, ST2-2DP-T, ST2-6MW-S ST2-7MW-T</p> <p>How do materials change when heated and cooled? How do you decide upon which material to use for a particular purpose? 20 weeks *LINKS: Mathematics</p>	<p>Survival of Living Things <i>Living World</i> ST2-1WS-S, ST2-2DP-T, ST2-4LW-S ST2-5LW-T</p> <p>How can we group living things? What are the similarities and differences between the life cycles of living things? How are environments and living things interdependent? How do we create food and fibre products from animals and plants? 15 weeks *LINKS: Geography, PDH</p>			
	<p>It's A Living Thing <i>Living World</i> STe-1WS-S STe-2DP-T STe-3LW-ST</p> <p>What do we notice about living things? How can living things be used to meet our needs? 10 weeks *LINKS: Geography, PDH</p>		<p>Up Above & Down Below <i>Earth & Space</i> ST1-1WS-S ST1-10ES-S</p> <p>How can we investigate the observable changes that occur in the sky and on the land? What are Earth's resources and how do we use and care for them? 15 weeks *LINKS: Geography</p>	<p>Surviving, Adapting & Sustaining <i>Living World</i> ST3-1WS-S ST3-2DP-T ST3-4LW-S ST3-5LW-T</p> <p>How do physical conditions affect the survival of living things? How do the structural and behavioural features of living things support survival? How do physical conditions affect the survival of living things? Why is it important for food and/or fibre to be produced sustainably? 15 weeks *LINKS: Geography, PDH</p>	<p>Designing Digital Solutions <i>Digital Technologies</i> ST3-2DP-T, ST3-3DP-T ST3-11DI-T</p> <p>How do components of digital systems interact with each other to transmit data? How do the components of digital systems connect together to form networks? How do we represent decision-making in an algorithm? 20 weeks *LINKS: History, Geography, Mathematics</p>			