


 Science Curriculum Map Hatch Warren Junior School

	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
<b>LONGITUDINAL STUDY</b>	<b>If we cut down the woodland, what affect would it have on what lives there?</b>	<b>What would happen if pollination stopped?</b>	N/A	N/A
<b>Autumn 1</b>	Animals including humans <b>(Skeleton and movement. Nutrients and food)</b> NB A small introduction on how plants make food (Spring 2) will be needed before starting the longitudinal study. <b>Classification keys.</b> Elizabeth Blackwell ( Book – Who Says Women Can't be Doctors?) Navaratnam Partheeban ( PDF Slide show.)	Plants <b>(How plants reproduce.)</b> NB A small introduction on how plant reproduction (Summer 1) will be needed before starting the longitudinal study. Make observational drawings of plants, labelling and description of key features... Robert Hooke Dr Angie Burnett( PDF Slide show.)	Properties and changes of materials. <b>(Making new substances.)</b> Draw labelled diagrams to show changes (particles.) How to use a thermometer correctly (Create a guide.) Inge Lehmann Gunay Shamilova( PDF Slide show.)	Electricity <b>(Controlling electrical circuits.)</b> Finding averages What makes a fair test in each investigation? How to draw a conclusion Nicolae Tesla
<b>Autumn 2</b>	Light <b>(Light.)</b> Use a ruler to measure shadows. Thomas Edison	Electricity <b>(Making electrical circuits work)</b> How to connect components safely so that a complete circuit is made... Caroline Haslett Haydn Francis ( PDF Slide show.)	Classification of living things & Fossils. . (Fossils, geological time and classification.) Observe changes – what is the same & what is different? How to use a key (classification.) Hella Peter( PDF Slide show.) Dr Emma Nicholls( PDF Slide show.) (Book – Gutsy Girls go for Science: Palaeontologists and/or The Dinosaur Expert)	Sound <b>(How sound is made, travels and can be changed.)</b> How to draw and interpret a line graph. How should we check and reproduce our testing? Observation and diagrams How to use a sound meter. (Book – the Deaf Musician)
<b>Spring 1</b>	Plants <b>(How plants make food.)</b> How to use a magnifying glass. Making scientific drawings with labels. Wangari Maathai (Book – Seeds of Change.) Emma Williams ( PDF.Slide show.)	Living things in their habitats (Feeding, relationships and the environment.) How to use magnifiers -revision from Y3 How to use a food chain & classification key. Joan Proctor (Book- Dragon Doctor.) Vicky Bowskill ( PDF Slide show.)	Forces <b>(Forces that oppose motion.)</b> Create a water resistance table. How to use force meters accurately Plan first for fair tests before carrying out. Galileo Rafsan Chowdhury( PDF Slide show.) Kathryn Waring (PDF Slide show.)	Evolution and inheritance. <b>(Evolution &amp; natural selection.)</b> How to use evidence from Darwin's theories to draw conclusions. Charles Darwin JB Lamark Telma G. Laurentino(PDF Slide show.)
<b>Spring 2</b>	Properties and changes of materials. <b>(Mixtures &amp; separating them.)</b> Use of apparatus such as filters, sieves. How to use them safely and to ensure a fair test. Stephanie Kwolek Dr Raquel Prado( PDF Slide show.)	Adaptation. <b>(Feeding relationships and the environment.)</b> How to gather woodlice and/or use a choice chamber. Evelyn Cheesman ( Book- Evelyn the Adventurous Entomologist))	Earth in Space <b>(Space &amp; Gravity.)</b> Google Earth Decide procedures for pom-pom experiment. Pose questions about the properties of planets in the solar system and analyse using data sheets. (From internet.) Mae Jemison (Book – Mae Among the Stars.) Katherine Johnson Prof Hayley Gomez (PDF Slide show.) Prof Karen Aplin (PDF Slide show.) (Book – Hidden Figures)	Light <b>(How light behaves and how we see.)</b> How can we measure opacity fairly? Hedy Lamarr (Book – Hedy Lamarr's Double Life. Links to DT) Prof Colin Webb( PDF Slide show.)
<b>Summer 1</b>	Rocks. Use of magnifying glasses to observe... Mary Anning (Book – Stone girl, Bone Girl. Or Mary Anning & the Sea Dragon.) Brianna Green ( PDF Slide show.)	Animals including humans <b>(How the body gets nutrients into the blood.)</b> How will be ensure a fair test –(Liquids making teeth rot. What apparatus is needed & what will we measure.) Aristotle Dr Michael Sulu ( PDF Slide show.)	Animals including humans (Sexual and asexual reproduction.) / RSE & Swimming Jane Goodall (Book Me....Jane) Dr Kehinde Ross ( PDF Slide show.)	Animals including humans <b>(Circulation &amp; Digestion.)</b> How to use a balloon to measure lung capacity – create a video. How to accurately measure height – create a video. David Attenborough Rachel Carson Mary Maynard Daly Elizabeth Blackwell ( Book – Who Says Women Can't be Doctors?)
<b>Summer 2</b>	Forces- magnets <b>(Magnets and their effects.)</b> Make scientific drawings with labels. Isaac Newton Michael Faraday	Properties and changes of materials. <b>(Solids, liquids &amp; gases.)</b> How to heat the ice with water safely. Create instructions for safety and procedures How to measure temperature ( model) and volume of liquid. Marie Curie Alison Parker ( PDF Slide show.)		

There is an expectation that during the key stage children will be taught to use practical scientific methods, processes and skills through the units and programme of study content, (See Support Notes- Working Scientifically.)

The text in mustard brown refers to Hants Planning Progression Document.

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