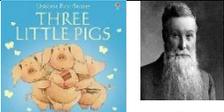


## Plymouth Science Knowledge and Skills Coverage. (Year 2)

Content/ Knowledge	<p style="text-align: center;"><u>Animals Including Humans</u></p> <p>I notice that animals including humans have offspring which grow into adults. I can find out about and describe the basic needs of animals including humans for survival. Describe the importance for humans of exercise, eating the right amounts of different types of food and hygiene</p>	<p style="text-align: center;"><u>Living Things and Habitats</u></p> <p>Explore and compare the differences between things that are living, dead and things that have never been alive. Identify most living things live in habitats to which they are suited and describe how different habitats provide for basic needs of different kinds of animals and plants and how they depend on each other. Identify and name a variety of plants and animals in their habitat, including microhabitats. Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain and identify and name different sources of food.</p>	<p style="text-align: center;"><u>Materials</u></p> <p>To identify and compare the suitability of a variety of everyday materials including wood, metal, plastic, glass, brick, rock, paper, cardboard for particular uses. I can find out how the shape of solid objects made from materials can be changed by squashing, bending, twisting and stretching.</p>	<p style="text-align: center;"><u>Plants</u></p> <p>To observe and describe how seeds and bulbs grow into mature plants. Find and describe how plants need water, light and a suitable temperature to grow and stay healthy.</p>
<p>Book/ Science Capital</p>	 <p style="text-align: center;">Health care assistant</p>	<ul style="list-style-type: none"> <li>Mummy can I have a penguin story.</li> </ul>	 <p style="text-align: center;">John Dunlop</p>  <p style="text-align: center;">Oliver Rackham</p>	 <p style="text-align: center;">Sam plants a Sunflower Carl Linnaeus George Washington Carver Alexander Von Humboldt</p>
<p>Scientific Enquiry</p>	<ul style="list-style-type: none"> <li>Look for patterns in animals</li> <li>Observe lifecycle over time</li> <li>Research facts about animals</li> <li>Identify foods animals eat</li> <li>Set up comparable test</li> <li>Identify and classify foods</li> <li>Identify and classify foods</li> <li>Look for patterns in how germs spread</li> <li>Use research</li> <li>Observe over time</li> <li>Revise, research and recall</li> </ul>	<ul style="list-style-type: none"> <li>Identify and classify objects</li> <li>Identify habitats</li> <li>Research facts about animals</li> <li>Look for patterns in data</li> <li>Look for patterns in data</li> <li>Find out what animals eat.</li> </ul>	<ul style="list-style-type: none"> <li>Compare and group materials.</li> <li>Identify materials</li> <li>Use research for understanding.</li> <li>Comparative tests.</li> <li>Notice patterns between materials.</li> <li>Comparative test.</li> </ul>	<ul style="list-style-type: none"> <li>Identify and classify parts of a flower</li> <li>Observe over time how plants grow.</li> <li>Use a Venn diagram to sort and classify</li> <li>Identify plants using observations/identify plants in environment</li> <li>Observe plants over time</li> <li>Carry out comparative test</li> <li>Record observations after time</li> <li>Look for patterns in my tests</li> <li>Look for patterns</li> <li>Use research</li> <li>Look for patterns</li> <li>Recap key concepts</li> </ul>
<p>Working Scientifically</p>	<ul style="list-style-type: none"> <li>Identify animals and offspring</li> <li>Communicate findings about animals</li> <li>Use art to represent food groups</li> <li>Evaluate test</li> <li>Communicate findings</li> <li>Plan and carry out test</li> <li>Make simple predictions</li> <li>Sort food into groups and record</li> <li>Communicate using models</li> <li>Ask simple questions</li> <li>Answer questions using scientific knowledge.</li> </ul>	<ul style="list-style-type: none"> <li>Ask questions</li> <li>Draw basic conclusions</li> <li>Record observations</li> <li>Use tables and pictograms</li> <li>Interpret results</li> <li>Communicate findings</li> </ul>	<ul style="list-style-type: none"> <li>Identify and classify materials.</li> <li>Labelled diagrams</li> <li>Draw basic conclusions</li> <li>Carry out simple comparative tests.</li> <li>Predicting best material</li> <li>Evaluate findings of tests</li> </ul>	<ul style="list-style-type: none"> <li>Label parts of a flower</li> <li>Make observations on how a plant grows</li> <li>Use a Venn diagram to sort and classify</li> <li>Identify plants using observations</li> <li>Make basic predictions</li> <li>Carry out simple tests</li> <li>Communicate clearly how plants grow</li> <li>Ask questions to investigate</li> <li>Evaluate test</li> <li>Observe plants in different climates</li> <li>Record results/accurate measurements</li> <li>Evaluate learning</li> </ul>
<p>Outcomes</p>	<p>Can sequence the stages of a baby. Observe these changes.            Can describe how animals change as they get older.            Develops understanding of how insects change (more than a butterfly) through lifecycle diagrams.            Can explain what humans and other animals need to survive.            Can describe how to keep clean and healthy.            Has a good understanding of the food plate and understands 'a healthy balanced diet'.</p>	<p>Find a range of items which are dead, living.            Can name plants/animals which live in different habitats and micro habitat.            Can talk about the features of the animal/plant and how they are suited to the habitat.            Can talk about what the animal eats.            Can construct a food chain using simple diagrams.</p>	<p>Can name an object, say what material it is made from, identify properties and make a link between property and use.            Whilst changing a shape of an object can describe the actions used.            Can use suitable vocabulary.            Simple tests relevant to properties.            Describe similarities and differences in materials.</p>	<p>Can describe how plants that have grown from seeds and bulbs have developed over time.            Can identify plants that grew well in different conditions.            Can spot similarities and differences between bulbs and seeds.            Can nurture seeds and bulbs into mature plants identifying the different requirements of different plants.</p>

	<p>Can adopt a menu to substitute food from the eat well plate.</p> <p>Understands the effect of exercise on the body.</p>			
Vocab	<p>Offspring, grow, adults, nutrition, reproduce, survival, water, food, air, exercise, hygiene, survival, exercise.</p>	<p>Living, dead, never been alive, suited, suitable, basic need, food, food chain, shelter, move, feed, names of local habitats e.g. pond, woodland, names of micro habitats e.g. under logs, in bushes etc.</p>	<p>Names of materials: wood, plastic, glass, metal, water, rock, brick, paper, fabric, card, rubber, suitable/unsuitable, use/useful, hard/soft, stretchy/stiff. Rigid/flexible, waterproof/absorbent, strong/weak, rough/smooth, transparent/opaque, shape, push/pushing, pull/pulling, twist/twisting, squash/squashing, bend/bending, stretch/stretching.</p>	<p>Leaf, flower, blossom, bud, petal, berry, root, seed, stalk, trunk, branch, stem, bark, fruit, light, shade, sun, warm, cool, water, grow, healthy, germinate, climate, nutrients.</p>