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Content/ Knowledge	<h3 style="text-align: center;">Rocks</h3> <p>To compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. To describe in simple terms how fossils are formed when things that have lived are trapped within rock. To recognise that soils are made from rock and organic matter.</p>	<h3 style="text-align: center;">Animals Including Humans</h3> <p>I can identify that humans and some other animals have skeletons and muscles for support, protection and movement. I can identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat.</p>	<h3 style="text-align: center;">Forces and Magnets</h3> <p>I can compare how things move on different surfaces. I notice that some forces need contact between two objects, but magnetic forces can act at a distance. I can observe how magnets attract or repel each other and attract some materials and not others. I can compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet and identify some magnetic materials. I can describe magnets as having two poles. Predict whether two magnets will attract or repel each other, depending on which poles are facing.</p>	<h3 style="text-align: center;">Light</h3> <p>To recognise we need light in order to see things and that dark is the absence of light. Light is reflected from surfaces. Recognise that light from the sun can be dangerous and that there are ways to protect your eyes. Recognise that shadows are formed when light from a light source is blocked by an opaque object. Find patterns in the way that the shadows change.</p>	<h3 style="text-align: center;">Plants</h3> <p>I can identify and describe the functions of different parts of a flowering plant. I can explore the requirements of plant life and growth. I can investigate the way in which water is transported within plants. I can explore the part that flowers play in the lifecycle of flowering plants including pollination, seed formation and seed dispersal.</p>
Scientific Enquiry	<p> <u>Comparative and fair testing</u></p> <p> <u>Observation over time</u></p> <p>What happens when water keeps dripping on a sandcastle?</p> <p> <u>Pattern seeking</u></p> <p>Is there a pattern in where we find volcanoes on planet Earth?</p> <p> <u>Identifying, grouping and classifying</u></p> <p>Can you use the identification key to find out the name of the rocks in your collection?</p> <p> <u>Research using secondary sources</u></p> <p>Who was Mary Anning and what did she discover?</p>	<p> <u>Comparative and fair testing</u></p> <p>How does the skull circumference of a girl compare to that of a boy?</p> <p> <u>Observation over time</u></p> <p> <u>Pattern seeking</u></p> <p> <u>Identifying, grouping and classifying</u></p> <p>How do the skeletons of different animals compare?</p> <p> <u>Research using secondary sources</u></p> <p>Why do different types of vitamins keep us healthy and which foods can we find them in?</p>	<p> <u>Comparative and fair testing</u></p> <p>Which magnet is strongest?</p> <p>Which surface is best to stop you slipping?</p> <p>How does the number of layers of transparent plastic affect how much light can pass through?</p> <p>How does the mass of an object affect how easy it is to move?</p> <p> <u>Observation over time</u></p> <p> <u>Pattern seeking</u></p> <p>Does the size and shape of a magnet affect how strong it is?</p> <p> <u>Identifying, grouping and classifying</u></p> <p>I can carry out a fair test using magnets.</p> <p>I can spot patterns in my drawings and explain what is happening using magnetic fields.</p> <p> <u>Research using secondary sources</u></p> <p>How have our ideas about forces changed over time?</p> <p>How does a compass work?</p>	<p> <u>Comparative and fair testing</u></p> <p>How does the distance between the shadow puppet and the screen affect the size of the shadow?</p> <p> <u>Observation over time</u></p> <p>When is our classroom darkest?</p> <p>Is the sun the same brightness all day?</p> <p> <u>Pattern seeking</u></p> <p>Finding patterns in the way the size of shadows change.</p> <p> <u>Identifying, grouping and classifying</u></p> <p> <u>Research using secondary sources</u></p> <p>How does the Sun make light?</p>	<p> <u>Comparative and fair testing</u></p> <p>Which conditions help seeds germinate faster?</p> <p>Which soil absorbs the most water?</p> <p>How does the length of the carnation stem affect how long it takes for the food colouring to dye the petals?</p> <p> <u>Observation over time</u></p> <p>What happens to celery when it is left in a glass of coloured water?</p> <p>How do flowers in a vase change over time?</p> <p> <u>Pattern seeking</u></p> <p>What colour flowers do pollinating insects prefer?</p> <p> <u>Identifying, grouping and classifying</u></p> <p>How many different ways can you group our seed collection?</p> <p> <u>Research using secondary sources</u></p> <p>What are all the different ways that seeds disperse?</p>