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| **Forces and magnets**  The children will be taught:   * that forces make things move, stop moving or change the direction of their movement * what friction is and which types of surface make moving an object easier or harder * that magnetic forces do not need direct contact with some objects to work * what the words repel and attract mean when using magnets with materials * that only metal will be attracted to a magnet, but not all metals will do so * how a magnet works * that a magnet has a north and south pole * why magnets may attract or repel each other. | **Plants**  The children will be taught:   * to identify roots, stems, leaves and flowers on different plants and know their functions * about what conditions a plant needs to grow and stay healthy. * why plants need their own space to grow * the direction that water travels through a plant * to identify the stigma, stamen and petal of a flowering plant * that pollen is made in the stamen and eggs in the stigma * how petals/flowers help to attract insects * what the word pollination means * to make observations of a plant’s development and identify where new seeds develop. | | **Rocks**  The children will be taught:   * to describe the appearance of a rock as smooth/rough, grainy, with crystals or layers, are attractive and their colours * how to test the hardness of rocks * how to test the permeability of rocks * what fossils are, where they can be found and how they are made * that rocks can be worn down or broken up over time * that soil is made when rocks are worn down or organic material dies * to describe differences in appearance between types of soil. |
| **Animals including humans**  The children will taught:   * that animals must eat to get the nutrition needed to stay alive and healthy * the names of the major food groups and explain how some of them help us * what the main functions of skeletons and muscles are * about how movement is different between animals with and without skeletons * to identify and name the main bones in the human body. | | **Light**  The children will taught:   * to identify natural or man-made sources of light * that light travels into the eyes and is not made by the eye * that light hitting shiny objects will be reflected * what the terms opaque, transparent and translucent mean * what creates a shadow and investigate how shadows can be made bigger, shorter, longer and shorter. | |
| **Working scientifically. The children will have the opportunity to:**   * ask relevant questions and use different types of scientific enquiries to answer them * set up simple practical enquiries, using both comparative and fair tests * make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment * gather, record, classify and present data in a variety of ways to help in answering questions * record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables * report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions * use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions * identify differences, similarities or changes related to simple scientific ideas and processes * use straightforward scientific evidence to answer questions or to support their findings. | | | |