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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.
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| **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.
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| **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.
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