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| **Living things and their habitats**The children will be taught:* to identify and sequence the main stages in the life cycles of birds, amphibians and mammals
* to identify and sequence the main stages in the life cycle of a vegetable or flower within the school environment
* about the parts of a flower used in reproduction
* what pollination is and how it might happen
* what fertilization is and how it might happen
* how the developed seed is dispersed and know why this is important
* know what germination is
 | **Earth and Space**The children will be taught:* to name and sequence parts of our solar system
* what the word orbit means and how planets do this at different speeds
* how long it takes for the Earth to orbit the Sun
* what people used to believe about the solar system
* why the Moon orbits the Earth, how long it takes and its appearance as it moves
* about the relative size and shape of the Sun, Earth and Moon
* how the rotation of the Earth creates night and day
* how the appearance of the Sun will change during one rotation of the Earth.
 | **Properties and changes in materials**The children will be taught:* to describe and compare solid materials using terms: hardness, strength, stiffness, flexibility, elasticity, plasticity, absorbency and permeability
* to identify materials that are good conductors and insulators for electricity or heat
* how to test which metals are most magnetic
* to identify uses for materials based on properties
* what the terms dissolve, substance, solution, solubility, suspension and transparency mean
* to separate mixed materials using sieving, filtering and evaporation
* what reversible and irreversible changes are, give examples, and that an irreversible change means something new has been made.
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| **Animals including humans**The children will be taught:* how to make notes and timelines to show the stages in the growth of humans
* about the changes that happen to humans during puberty
* about the gestation period of humans and other animals.
 | **Forces**The children will be taught:* about Isaac Newton and what gravity is
* about the difference between the mass and the weight of an object
* how the force of friction acts between objects and surfaces
* how to investigate air and water resistance and how forces can be changed
* about how levers, pulleys and gears help move objects.
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| **Working scientifically. The children will have the opportunity to:*** plan different types of scientific enquiries to answer questions
* take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
* record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
* use test results to make predictions to set up further comparative and fair tests
* report and present findings from enquiries, including conclusions, causal relationships and explanations in oral and written forms such as displays and other presentations
* identify scientific evidence that has been used to support or refute ideas or arguments.
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