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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. |
| **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. | |
| **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. | | | |