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| **Year 5 Science Coverage 2020-2021**  *Progression in Knowledge, skills and understanding* **crest** | Key vocabulary |
| **Materials**  **Compare and group** together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets  know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.  **Use knowledge** of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.  **Give reasons**, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.  **Demonstrate** that dissolving, mixing and changes of state are reversible changes  explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.  **Living things/ Habitats**  **Describe** the differences in the life cycles of a mammal, an amphibian, an insect and a bird.  **Describe** the life process of reproduction in some plants and animals.  **Earth/ Space**  **Describe** the movement of the Earth, and other planets, relative to the Sun in the solar system.  **Describe** the movement of the Moon relative to the Earth.  **Describe the** Sun, Earth and Moon as approximately spherical bodies.  **Use the idea** of the Earth’s rotation to explain day and night and the apparent movement of the sun across the sky.  **Forces**  **Explain** that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.  **Identify** the effects of air resistance, water resistance and friction, that act between moving surfaces.  **Recognise** that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.  **Animals/ Humans**  **Describe** the changes as humans develop to old age.  **Working Scientifically**  planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary  •taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate  •recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs  •using test results to make predictions to set up further comparative and fair tests  •reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations  •identifying scientific evidence that has been used to support or refute ideas or arguments. |  |