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| **Subject: Science** | | | | | | |
|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Year 7** | **Unit Name:**  Living things and their habitats.  **Unit Description:**  Defining ’life’, classifying living things based on observable characteristics, associating living things with their habitats based on observed characteristics. | **Unit Name:**  Plants and animals (inc. humans).  **Unit Description:**  Comparing and contrasting plants and animals physically, in their life cycles and their nutritional needs and systems. | **Unit Name:**  Materials.  **Unit Description:**  Properties of materials, including, dissolving, separating and irreversible changes. | **Unit Name:**  Earth and space.  **Unit Description:**  Overview of the Earth and its place in our solar system. | **Unit Name:**  Light and sound.  **Unit Description:**  The nature of light, how we see, reflection, refraction and shadows.  The nature of sound, how we hear, volume and pitch. | **Unit Name:**  Forces and magnets.  **Unit Description:**  Defining a force and distinguishing between contact and non-contact forces. The nature of gravity, magnetism, friction, water and air resistance. |
| **Year 8** | **Unit Name:**  Structure and function of living organisms.  **Unit Description:**  Cellular organisation, skeletal, muscular, digestive, gas exchange and reproductive systems of living things. | **Unit Name:**  Cycles, interactions, and interdependencies.  **Unit Description:**  Photosynthesis and respiration. Relationships within an ecosystem. | **Unit Name:**  Materials and States.  **Unit Description:**  States of matter and changes of state (including the water cycle and its environmental significance) | **Unit Name:**  Chemical reactions.  **Unit Description:**  Acids, alkalis and neutralisation. Human activity resulting in acid rain and the impact of this. The Rock Cycle. | **Unit Name:**  Electricity  **Unit Description:**  The nature of electricity, static and current. Circuits with simple components, conductors and insulators. | **Unit Name:**  Motion and forces.  **Unit Description:**  Measurement of fa force using newtons. Relationship between force and motion. Measurement of motion as speed. |
| **Year 9** | **Unit Name:**  The Human Body.  **Unit Description:**  Structural organisation of the human body. Respiration, coordination and the maintenance of health. | **Unit Name:**  Environment, evolution, and inheritance.  **Unit Description:**  Photosynthesis as the basis for life on Earth. Relationships between organisms and their environment. Selection pressures and natural selection leading to evolution. The nature of DNA as genetic material. | **Unit Name:**  Elements, mixtures, and compounds.  **Unit Description:**  Atomic structure, elements and reactions. States of matter and the structure of molecules in relation to their function. | **Unit Name:**  Chemistry in our world.  **Unit Description:**  Reactions of acids. Energy and the rate of reaction. Our atmosphere and water resource and the impact of humans. | **Unit Name:**  Energy forces, and structure of matter.  **Unit Description:**  The nature of forces. Energy transfer. Work, motion, speed and stopping distances.  Nuclear radiation. | **Unit Name:**  Electricity, magnetism, and waves.  **Unit Description:**  Nature of electricity, including current and its manipulation to produce an electromagnet. Nature and use of waves and particularly electromagnetic waves. |