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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. |