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| IMG_256 | | | | | |
| **5 year curriculum plan for Science** | | | | | |
| **Advancing the frontiers of knowledge to create a more sustainable, inclusive and equitable future** | | | | | |
| **nurture inquisitive minds** | **experiment with new ideas** | **work collaboratively** | **develop open-mindedness** | **reason with scientific data** | **think creatively** |
|  |  |  |  |  |  |
| **Term** | **Year 7** | **Year 8** | **Year 9** | **Year 10** | **Year 11** |
| Autumn term  Sept - December | **Organisms**  Movement  Cells | **Organisms**  Breathing  Digestion | **Biology**  Ecology | **Biology**  Cell biology | **Biology**  Homeostasis and response |
| **Matter**  Particle model  Separating mixtures | **Matter**  Periodic table  Elements | **Chemistry**  Earths atmosphere | **Chemistry**  Atomic structure and the periodic table | **Chemistry**  Quantitative chemistry |
| **Forces**  Speed  Gravity | **Forces**  Contact forces  Pressures | **Physics**  Energy | **Physics**  Electricity | **Physics**  Magnetism and electromagnetism |
| Spring term  January - March | **Ecosystems**  Interdependence  Plant reproduction | **Ecosystems**  Photosynthesis  Respiration | **Biology**  Infection and response | **Biology**  Organisation |  |
| **Reactions**  Metals / non-metals and Acids and alkalis | **Reactions**  Chemical energy  Types of reaction | **Chemistry**  Organic chemistry | **Chemistry**  Bonding, structure, and the properties of matter |  |
| **Electromagnets**  Voltage and resistance  current | **Electromagnets**  Magnetism  Electromagnets | **Physics**  Waves | **Physics**  Forces |  |
| Summer term  April - July | **Genes**  Human reproduction  Variation | **Genes**  Evolution  Inheritance | **Biology**  Bioenergetics | **Biology**  Inheritance, variation and evolution |  |
| **Earth**  Earth structure  The Universe | **Earth**  Climate  Earth resources | **Chemistry**  Using resources | **Chemistry**  Chemical and Energy changes |  |
| **Waves**  Sound  Light | **Waves**  Wave effects  Wave properties | **Physics**  Particle model | **Physics**  Atomic structure |  |
| **Energy**  Energy costs  Energy transfers | **Energy**  Work  Heating and cooling | **Chemistry**  Chemical analysis | **Chemistry**  The rate and extent of chemical change |  |