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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**MovementCells | **Organisms**BreathingDigestion | **Biology**Ecology | **Biology**Cell biology | **Biology**Homeostasis and response |
| **Matter**Particle modelSeparating mixtures | **Matter**Periodic tableElements | **Chemistry**Earths atmosphere | **Chemistry**Atomic structure and the periodic table | **Chemistry**Quantitative chemistry |
| **Forces**SpeedGravity | **Forces**Contact forcesPressures | **Physics**Energy | **Physics**Electricity | **Physics**Magnetism and electromagnetism |
| Spring term January - March | **Ecosystems**InterdependencePlant reproduction | **Ecosystems**PhotosynthesisRespiration | **Biology**Infection and response | **Biology**Organisation |  |
| **Reactions**Metals / non-metals and Acids and alkalis | **Reactions**Chemical energyTypes of reaction | **Chemistry**Organic chemistry | **Chemistry**Bonding, structure, and the properties of matter |  |
| **Electromagnets**Voltage and resistancecurrent | **Electromagnets**Magnetism Electromagnets | **Physics**Waves | **Physics**Forces |  |
| Summer termApril - July  | **Genes**Human reproductionVariation | **Genes**EvolutionInheritance | **Biology**Bioenergetics | **Biology**Inheritance, variation and evolution |  |
| **Earth**Earth structure The Universe | **Earth**ClimateEarth resources | **Chemistry** Using resources  | **Chemistry** Chemical and Energy changes  |  |
| **Waves**SoundLight | **Waves**Wave effectsWave properties | **Physics**Particle model  | **Physics**Atomic structure |  |
| **Energy** Energy costsEnergy transfers | **Energy**WorkHeating and cooling | **Chemistry**Chemical analysis | **Chemistry**The rate and extent of chemical change |  |