

Curriculum Map

Subject: Science

Year Group: 8

| Time Period | Autumn Term | Spring Term | Summer Term |
|----------------------|---|---|--|
| Content | Digestion Reproduction in animals and plants Energy Motion and pressure Acids and Alkalis Materials | Ecosystems Motion and pressure Electricity and Magnetism Earth and rocks | Variation Magnetism Practical skills |
| Skills | Predicting, making inferences and describing relationships Use of scientific terms Organisation of ideas and information Identifying main ideas, events and supporting details Application of working scientifically | Predicting, making inferences and describing relationships Use of scientific terms Organisation of ideas and information Identifying main ideas, events and supporting details Application of working scientifically | Predicting, making inferences and describing relationships Use of scientific terms Organisation of ideas and information Identifying main ideas, events and supporting details Application of working scientifically |
| Key Questions | What is puberty? How do animals reproduce? How are humans born? How do plants reproduce? How much energy do we need from food each day? What is temperature? How does heat travel? What is a fossil fuel? What is work? How do we calculate speed? How is the periodic table arranged? What are the reactions of the elements in; group 1.group 7 and group 0? | How do plants and animals rely on each other for food? How are population sizes maintained? What is the impact of pollution on animals and plants? What is pressure? Why do some object float and some sink? How do we calculate pressure? What is a turning force? What is lightning? What is an electric current? What is resistance? What is the structure of the earth? | What causes variation? What is natural selection? How can we prevent extinction? How do magnets behave? How do we make electromagnets? What are electromagnets used for? |

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| | <p>How are metals different from non-metals?</p> <p>How do metals react with; oxygen, acid and water?</p> <p>How do we extract metals from ores?</p> <p>What are ceramics made from?</p> <p>What are polymers?</p> <p>What are composites?</p> | <p>What are the different types of rocks?</p> <p>What is acid rain?</p> <p>Why should we try to recycle more?</p> | |
| <p>Assessment week and content</p> | <p>Energy W/C 13th November</p> <p>Digestion W/C 2nd October</p> <p>Acids and Alkalis W/C 13th November</p> | <p>Reproduction W/C 22nd January</p> <p>Motion and pressure W/C 23rd January</p> <p>Materials W/C 29th January</p> <p>Ecosystems W/C 12th February</p> | <p>Electricity and Magnetism W/C 24th April</p> <p>Earth and rocks W/C 20th May</p> <p>Variation W/C 22nd May</p> <p>Practical skills W/C 3rd July</p> |

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