

GCSE Science Revision – 2017-2018

| Date | Topic | Room |
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| 12 September 2017 | Physics Unit 1 – Energy <ul style="list-style-type: none">- Energy stores and systems- Kinetic and elastic potential energy- Energy changes- Work and power- Efficiency Renewable and non-renewable energy | 2112 |
| 19 September 2017 | Chemistry Unit 1 – Atomic Structure and Periodic Table <ul style="list-style-type: none">- Atoms, elements and compounds- Distillation- Electron configuration- Development of the periodic table- Group 1, 7 and 0- Transition metals (CHEMISTRY ONLY) | 2112 |
| 26 September 2017 | Biology Unit 1 – Cell Biology <ul style="list-style-type: none">- Cells – prokaryotes and eukaryotes- Specialised cells- Magnification- Diffusion / osmosis / active transport- Cell cycle and mitosis- Stem cells | 2112 |

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| <p>3 October 2017</p> | <p>Biology Unit 2 – Organisation</p> <ul style="list-style-type: none"> - Organisational hierarchies - Digestive system - Enzymes and factors affecting enzymes - Heart and circulatory system - Blood - Respiratory system - Plant tissues and organs | <p>2112</p> |
| <p>10 October 2017</p> | <p>Chemistry Unit 2 – Bonding Structures and Properties</p> <ul style="list-style-type: none"> - States of matter - Ionic and covalent bonding - Ionic and covalent structures and properties - Polymers - Metallic bonding - Nanoparticles (CHEMISTRY ONLY) | <p>2112</p> |
| <p>17 October 2017</p> | <p>Physics Unit 2 – Electricity</p> <ul style="list-style-type: none"> - Current / potential difference and resistance - Current-voltage graphs - Series and parallel circuits - AC / DC - Electrical power - National Grid - Electrostatics (PHYSICS ONLY) | <p>2112</p> |
| <p>24 October 2017</p> | <p>Half Term Holidays</p> | |
| <p>31 October 2017</p> | <p>Biology Unit 3 – Infection and Response</p> <ul style="list-style-type: none"> - Viral / bacterial / fungal and protist diseases - Defending against diseases - Vaccination - Development of drugs to treat disease - Monoclonal antibodies (BIOLOGY ONLY) - Plant diseases (BIOLOGY ONLY) | <p>2112</p> |

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| <p>7 November 2017</p> | <p>Chemistry Unit 3 – Quantitative Chemistry</p> <ul style="list-style-type: none"> - Chemical equations / balancing equations - Relative formula mass - Moles - Limiting reactants - Concentration of solutions - Yield (CHEMISTRY ONLY) - Atom economy (CHEMISTRY ONLY) - Titrations (CHEMISTRY ONLY) | <p>2112</p> |
| <p>14 November 2017</p> | <p>Physics Unit 3 – Particle Model</p> <ul style="list-style-type: none"> - Particle model and density - Internal energy - Specific heat capacity - Specific latent heat - Gas pressure (PHYSICS ONLY) | <p>2112</p> |
| <p>21 November 2017</p> | <p>Biology Unit 4 – Bioenergetics</p> <ul style="list-style-type: none"> - Photosynthesis - Respiration – aerobic and anaerobic - Responding to exercise - Metabolism | <p>2112</p> |
| <p>28 November 2017</p> | <p>Chemistry Unit 4 – Chemical Changes</p> <ul style="list-style-type: none"> - Metal oxides - Extraction of metals - pH – strong and weak acids - Salts - Electrolysis and half equations | <p>2112</p> |

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| <p>5 December 2017</p> | <p>Physics Unit 4 – Atomic Structure</p> <ul style="list-style-type: none"> - Radioactive decay and nuclear radiation - Half life - Nuclear equations - Background radiation and uses of radiation (PHYSICS ONLY) - Half life of isotopes (PHYSICS ONLY) - Fission and fusion (PHYSICS ONLY) | <p>2112</p> |
| <p>12 December 2017</p> | <p>Exam Technique – getting full marks on 6 mark questions</p> | <p>2112</p> |
| <p>19 December 2017</p> | <p>Christmas Holidays</p> | |