Year 10 SOL 2022

Autumn

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| Fortnight | Biology | Chemistry | Physics |
| 1 – 06/09/21 | L1 – Cell biology recap | L1- Chemical formula and word equations | L1 – Energy stores and pathways |
| L2 – Specialised cells | L2- Balancing Equations | L2 – Energy transfers and efficiency |
| L3 – Microscopy RP | L3- Separating Techniques | L3 – Increasing energy efficiency |
| 2 – 20/9/21 | L4 – Microscopy | L4- Development of the atomic model | L4 – Kinetic energy |
| L5 – Mitosis | L5- Extended Writing history of an atom | L5 – GPE |
| L6 – Culturing microorganisms (triple only) | L6- Atomic structure and electron structure | L6 – Olympus Mons PS part 1 |
| 3 – 04/10/21 | L7 – Stem cells | L7- Isotopes | L7 – Olympus Mons PS part 2 (multiple equations) |
| L8 – Stem cells PS part 1 | Progress assessment | Progress assessment |
| L9 – Stem cells PS part 2 | L8 – The history of the periodic table | L8 – Elastic potential energy |
| 4 – 18/10/21 | L10 – Cell transport part 1 | L9 – Group 1 | L10 – Work done vs power |
| L11 – Cell transport part 2 | L10 – Group 0 | L11 – Thermal conductivity |
| HALF TERM |
| 5 – 01/11/21 | L12 – Osmosis RP part 1 | L11 – Group 7 | L12 – Investigating insulators part 1 |
| L13 – Osmosis RP part 2 | L12 – Halogen displacement | L13 – Investigating insulators part 2 |
| EOU assessment | L13 – Transition metals (triple only) | L14 – Energy resources |
| 6 – 15/11/21   | EOU DIRT | EOU assessment | EOU assessment |
| L1 – Organisation recap | DIRT | EOU DIRT |
| L2 – Food tests RP part 1 | L1 – Ionic bonding and compounds | L1 – Circuit symbols and diagrams |
| 7 – 29/11/21 | L3 – Food tests RP part 2 | L2 – Investigation and limitation of ionic bonding models | L2 – Current in circuits |
| L4 – Enzymes RP part 1 | L3 – Covalent bonding and simple covalent compounds | L3 – Potential difference in circuits |
| L5 – Enzymes RP part 2 | L4 – Giant covalent compounds | L4 – V = IR |
| 8 – 13/12/21 | Progress assessment | L5 – Ionic vs covalent bonds (extended writing) | L5 – Resistance of a wire part 1 |
| L6 – Circulatory system | L6 – Polymers | L6 – Resistance of a wire part 2 |

Spring

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| Fortnight | Biology | Chemistry | Physics |
| 1 – 03/01/22 | L7 - CHD | L7 – Metallic bonding, properties, and alloys | Progress assessment |
| L8 – Respiratory system and gas exchange | L8 – Nanoparticles (triple science) | L7 – VI graphs for bulbs |
| L9 – Exchange surfaces PS part 1 | EOU assessment | L8 – Non-ohmic conductors |
| 2 – 17/01/22 | L10 – Exchange surfaces PS part 2 | EOU DIRT | L9 – Plugs and fuses |
| L11 – Plant organisation | L1 – Metal oxides | L10 – AC & DC |
| L12 – Transpiration and translocation | L2 – Reactivity series | L11 – P = I2R |
| 3 – 31/01/22 | EOU assessment | L3 – Extraction of metals | L12 – Power of a kettle |
| EOU DIRT | L4 – Redox reactions (higher and triple only) | EOU assessment |
| L1 – Infection and response recap | L5 – pH scale and neutralisation | EOU DIRT |
| 4 – 14/02/22 | L2 – Protecting the body | L6 – Neutralisation reactions | L1 – States of matter |
| L3 – White blood cells | L7 – Metals and acids | L2 – Changing states |
| HALF TERM |
| 5 – 28/02/22 | L4 – Antibiotics and painkillers | L8 – Insoluble salts RP part 1 | L3 – Specific heat capacity part 1 |
| L5 – New drugs | L9 – Insoluble salts RP part 2 | L4 – Specific heat capacity part 2 |
| L6 – Vaccination and immunity | L10 – Strong and weak acids (higher and triple only) | L5 – Specific latent heat |
| 6 – 14/03/22   | Progress assessment | Progress assessment | L6 – Heating and cooling curves |
| L7 – Malaria | L11 – Introduction to electrolysis | Progress assessment |
| L8 – Cancer | L12 – Electrolysis of molten ionic substances | L7 – Particles DART |
| 7 – 28/03/22 | L9 – Monoclonal antibodies | L13 – Electrolysis of aluminium oxide | L8 – Density of regular objects |
| L10 – Plant disease and defence (triple only) | L14 – Electrolysis of aqueous compounds | L9 – Density of irregular objects PS part 1 |
| EOU assessment | L15 – Electrolysis RP part 1 | L10 – Density of irregular objects PS part 2 |
| 8 – 04/04/22 | EOU DIRT | L16 – Electrolysis RP part 2 | L11 – Pressure in liquids |
| L1 – Bioenergetics recap | EOU assessment | L12 – Changing pressure in gases |

Summer

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| Fortnight | Biology | Chemistry | Physics |
| 1 – 25/04/22 | L2 – Starch testing | EOU DIRT | L13 – Brownian motion and gas constants (triple only) |
| L3 – Limiting factors | L1 - Endothermic and exothermic reactions | EOU assessment |
| L4 – Light intensity RP part 1 | L2 - Reaction profiles | EOU DIRT |
| 2 – 09/05/22 | L5 – Light intensity RP part 2 | L3 - Energy changes RP part 1 | L1 – Atomic structure |
| Progress assessment | L4 - Energy changes RP part 2 | L2 – Discovery of the atom |
| L6 – Photosynthesis and food availability | L5 – Bond enthalpy (higher and triple only) | L3 – Radiation  |
| 3 – 23/05/22 | L7 – Respiration, exercise, and metabolism | L6 – Cells and batteries, and fuel cells (triple only) | L4 – Types of radiation |
| L8 – Mitosis and cancer recap | L1 – Conservation of mass and relative formula mass | L5 – Nuclear equations |
| HALF TERM |
| 5 – 06/06/22 | *Mock paper 1 assessment and revision for the rest of the term* | L2 – Mass changes with gases | L6 – Half life |
|  | L3 – Moles (higher and triple only) | Progress assessment |
|  | L4 – Limiting reactants (higher and triple only) | L7 – Chernobyl case study |
| 6 – 20/06/22   |  | L5 – Concentration of solutions | L8 – Uses and dangers of radiation |
|  | L6 – Titration RP part 1 (triple only) | L9 – Background radiation (triple only)TRILOGY catch up time |
|  | L7 – Titration RP part 2 (triple only) | L10 – Nuclear fission (triple only)TRILOGY catch up time |
| 7 – 04/07/22 |  | L8 – Percentage yield and atom economy (triple only) | *Mock paper 1 assessment and revision for the rest of the term* |
|  | L9 – Volume of gases (triple only) |
|  | *Mock paper 1 assessment and revision for the rest of the term* |
| 8 – 18/07/22 |  |
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