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| Subject: Science Year 11 Curriculum Map 2024-2025 | | | |
| Terms | **Topics covered** and **core knowledge and skills** | Links to careers | Links to the Knowledge organiser and other additional resources |
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| Half term 1  &  Half term 2 | **Unit BE1**   * Photosynthesis * Uses of glucose from photosynthesis * Factors affecting photosynthesis. * RP Photosynthesis * Protist diseases & Viral & fungal diseases * Stem cells * Selective breeding * Genetic engineering * Antibiotics & painkillers Resistant bacteria * Discovery & development of drugs * Vaccination * Metabolism & Homeostasis * Human endocrine system & control of blood glucose * (HT) Negative feedback * Menstrual cycle & hormones in reproduction * (HT) Hormones for infertility   **Unit CE1**   * Reversible reactions * Equilibrium & Changing conditions & Equilibrium * Effects of changing concentration on equilibrium * Effect of changing temperature & pressure on equilibrium * Conservation of mass & balancing equations * Mass changes when a gas is involved * Moles (HT) * Using moles to balance equations (HT) * Amount of substances in equations * Concentrations of solutions * Limiting reactants (HT) * Development of the periodic table   **Unit PE1**   * Distance time relationship * Velocity time graphs * Falling objects & F=MA * (HT) Momentum & (HT) Conservation of momentum * RP Hooke’s law * Gravity & Changes in energy calculations * Work done & energy transfer. * Factors affecting breaking distance. * RP Reaction time * (HT) Electric motors * Particle motion in gases * Change of state & specific latent heat * Density of materials * RP Density | [Careers in science - BBC Bitesize](https://www.bbc.co.uk/bitesize/articles/zjpc382#z34q7yc)  [STEM Careers Support](https://www.stem.org.uk/secondary/careers)  [Science careers support (stem.org.uk)](https://www.stem.org.uk/secondary/careers/resources/science)  [STEM Careers - Youth Employment UK](https://www.youthemployment.org.uk/careers-hub-sector/stem-careers/) | [Levels of organisation - Animal organisation - gaseous exchange systems - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](https://www.bbc.co.uk/bitesize/guides/zpxv6yc/revision/1)  [Molecules of life - Animal organisation - digestion - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](https://www.bbc.co.uk/bitesize/guides/z89mk2p/revision/1) |