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| Subject: Science Year 10 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 5 | **Unit: Chemistry 5**   * Endothermic and Exothermic Reactions * Temperature change during reactions required practical * Reaction profiles * Energy change of reactions (HT) * Bond energies (HT) * EOUT   **Unit: Physics 3**   * Density * Density Required Practical * Changes of State * Internal Energy * Specific Latent Heat * EOUT   **Unit: Biology 2 part 3**   * Cells in a leaf * Stomata & Practical * Cells in plant stems * Transpiration & Translocation * Measuring transpiration * EOUT   **Unit: Chemistry 4 part 1**   * Metal oxides * Reactivity series * Extraction of metals and reduction * Oxidation & Reductions of electrons (HT) * Electrolysis * Electrolysis of aqueous solutions * Electrolysis of molten substances * Electrolysis Required Practical * Half equations (HT) * EOUT | [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/) | <https://www.bbc.co.uk/bitesize/topics/z27xxfr>  <https://www.bbc.co.uk/bitesize/topics/z3ybb82>  <https://www.bbc.co.uk/bitesize/topics/zwj22nb>  <https://www.bbc.co.uk/bitesize/topics/zt6ppbk> |
| Half term 6 | **Unit: Physics 4**   * Atomic structure & Isotopes * Decay & nuclear radiation * Nuclear equations * Half-life * Contamination * EOUT   **Unit: Biology 4**   * Photosynthesis * Uses of glucose * Factors affecting the rate of photosynthesis * Interacting factors of photosynthesis (HT) * Photosynthesis Required Practical * Testing a leaf for starch Required Practical * EOUT   **Unit: Chemistry 4 part 2**   * pH scale * Acids & Metals * Neutralisation * Soluble salts * Soluble salt Required Practical * EOUT   **Unit: Biology 3**   * Bacterial diseases * Viral diseases * Fungal & Protist diseases * Non-specific defences * The immune system * Vaccinations * Antibiotics & Painkillers * Discovery & Development of drugs * EOUT   **Unit: Chemistry 4 part 2**   * Conservation of mass * Concentration of solutions * Mass changes of gases * Moles (HT) * Amount of substance (HT) * Moles & Balanced equations (HT) * Limiting reactants (HT) * EOUT | [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/) | <https://www.bbc.co.uk/bitesize/topics/zshssrd>  <https://www.bbc.co.uk/bitesize/topics/zgr997h>  <https://www.bbc.co.uk/bitesize/topics/zt6ppbk>  <https://www.bbc.co.uk/bitesize/topics/z9kww6f>  <https://www.bbc.co.uk/bitesize/topics/zt6ppbk> |