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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 3 | **Unit: Biology 2 pt 1**   * Organisation & Organ systems * Digestive system (part 1) * Digestive system (part 2) * Biological molecules * Testing for starch & glucose RP * Testing for protein & fats RP * Enzymes in the digestive system * Factors effecting enzymes * Effect of pH on Catalase SKILLS * Effect of temp on Amylase SKILLS (Laptops) * Effect of pH on Amylase RP * Effect of pH on Amylase RP – Conclusion * EOUT   **Unit: Chemistry 2**   * Metals vs. Non-metals * Metallic bonding & Alloys * Ions * Ionic bonding * Ionic compound properties * Covalent bonding * Covalent molecule properties * States of matter * Giant covalent structures #1 * Giant covalent structures #2 * Nano particles & Uses (Trip) * 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/) | [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)  [Bonding, structure and the properties of matter - GCSE Combined Science - BBC Bitesize](https://www.bbc.co.uk/bitesize/topics/z33rrwx) |
| Half term 4 | **Unit: Physics 2 pt 2**   * AC/DC & Mains electricity * Plugs * Electrical power * Energy transferred in appliances * National Grid * Static charge (Trip) * Electric fields (Trip) * EOUT   **Unit: Biology 2 pt 2**   * Respiratory system * Circulatory system * Blood * Blood vessels * The structure of the heart * Heart dissection practical * Coronary Heart disease * Health issues * Lifestyle factors * Respiration in animal cells * Response to exercise * Respiration in yeast cells * Respiring yeast Practical (Laptop) * Metabolism * 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/) | [Mains electricity and alternating current - AQA](https://www.bbc.co.uk/bitesize/guides/zw8n2nb/revision/1)  [Animal organisation - transport systems - AQA](https://www.bbc.co.uk/bitesize/guides/zsncsrd/revision/1) |