|  |  |  |  |
| --- | --- | --- | --- |
| 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 |
|  |  |  |  |
| Half term 1 | **Unit Biology Core 1 (BC1)**   * Human digestive system * Enzymes in the digestive system * RP Effect of pH on Amylase & Factors effecting enzymes * RP Testing for starch & glucose * RP Testing for protein & fats * Exchange surfaces SA:Volume ratios * Blood & blood vessels * The structure of the heart. * Coronary Heart disease * Structure of the lungs * Aerobic & anaerobic respiration * Response to exercise * Human Nervous system * RP Reaction time * 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/) | [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) |
| Half term 2 | **Unit Chemistry Core 1 (CC1)**   * States of matter & state symbols * Metals & non-metals * Covalent bonding * Simple covalent Structures * Giant covalent structures * Graphene & fullerenes * Ionic bonding * Ionic compounds * Properties of ionic substances * Metallic bonding & Properties of metals * Alloys * Metals as conductors * Electrolysis * Electrolysis of molten ionic compounds * Electrolysis to extract metals. * RP Electrolysis of aqueous solutions * (HT) Oxidation, reduction, and Half equations * Alternative methods of metal extraction * 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/) | [Bonding, structure and the properties of matter - GCSE Combined Science - BBC Bitesize](https://www.bbc.co.uk/bitesize/topics/z33rrwx)  [Electrolysis of molten salts - Electrolysis - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](https://www.bbc.co.uk/bitesize/guides/z9h9v9q/revision/1) |