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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 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) |