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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) |