**Curriculum Overview** –Year 9 Science

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| Term 1 |  | Term 2 |  | Term 3 |
|  |  |  |  |  |
| Term Start - End |  | Term Start |  | Term Start |
| 26/08/2024 – 13/12/2024 |  | 06/01/2025 – 21/03/2025 |  | 07/04/2025 – 27/07/2025 |
|  |  |  |  |  |
| Becoming a Scientist  9A Genetics and Evolution  9B Plant Growth  7F Acids and Alkalis |  | 9E Making Materials  9F Reactivity  9I Forces and Motion  9J Force Fields and Electromagnets |  | 9C/D Biology projects and Biology GCSE transition  9G/H Chemistry projects and Chemistry GCSE Transition  9K/L Physics projects and Physics GCSE Transition |
| **Becoming a Scientist** – This topic is all about how to work safely in the lab, and how to conduct an experiments accurately and correctly.  **9A Genetics and Evolution –** In this topic we will be looking at the incredible molecule DNA, and the incredible effects of inheritance and variation.  **9B Plant Growth –** In this topic we will be looking into plant adaptations, growing crops, and also looking into organic farming!  **7F Acids and Alkalis -** In this topic we will be learning about Acids/Alkalis, their uses, and their hazards! |  | **9E Making Materials –** In this topic we will be looking at materials such as ceramics and polymers. We will also be looking at problems with certain materials, and ways in which we can recycle.  **9F Reactivity –** In this topic we will be looking into types of explosions, displacement reactions and how we can extract metals!  **9I Forces and Motion –** In this topic we will be looking at speed equations and graphs, and also turning forces.  **9J Force Fields and Electromagnets –** In this topic we will be looking into force fields, static electricity, electromagnets and resistance. |  | **9C/D Biology projects and Biology GCSE transition**  In this topic we will be delving into key concepts of the IGCSE Biology course. We will be looking at Diseases, ecology and combatting pandemics. We will also be looking at an enzyme investigation. All key pieces of knowledge and skills to prepare for Year 10.  **9G/H Chemistry projects and Chemistry GCSE Transition -** In this topic we will be delving into key concepts of the IGCSE Chemistry course. We will be looking at ions, energy transfers, rates of reaction and chemical equations. All key pieces of knowledge and skills to prepare for Year 10.  **9K/L Physics projects and Physics GCSE Transition -** In this topic we will be delving into key concepts of the IGCSE Physics course. We will be looking at fields, models, information from graphs, and speed. All key pieces of knowledge and skills to prepare for Year 10. |
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| Assessment |  | Assessment |  | Assessment |
| TBA |  | TBA |  | TBA |
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