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| **Year 9**  **Biology**  **2020-2021** | In year 9 you will learn: How scientists developed their understanding of cell structure and function, How organisms obtain energy from food and why it is important to study microorganisms; how substances move in, out and around organisms, why organ systems are required, their structure and function. How enzymes work; What factors affect our chances of having a non-communicable disease, how communicable diseases spread and how we can control the spread of disease. This build upon KS3 topics exploring cell structure and body organ systems. |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| **Topic B1 CELL BIOLOGY** | | | | | | | |
| Weekly Homework Tasks |  |  | Mid Topic Assessment |  |  |  | End of topic B1 Test |
| **Key knowledge concept** = Cell development  **Attitudes and Skills TENSILE:** Numeracy, Literacy, Enquiry  **Numeracy** = size and number | | Required practical – Using light microscopes | |  |  | Required practical – effect of disinfectants on bacteria | |

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| 9 | 10 | 11 | 12 | 13 | 14 | 15 | **16** |
| **Topic B3 MOVING AND CHANGING MATERIALS** | | | | | | |  |
| Weekly Homework Tasks | |  |  |  | Mid Topic Assessment |  |  |
| **Key knowledge concept** = investigating the need for organ systems  **Attitudes and Skills TENSILE:** Numeracy, Literacy, Enquiry  **Numeracy** = Extracting and interpreting information | | | Required practical -Osmosis | | Required practical – Enzymes | |  |

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| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| **B3 Continued** | | | | | **Topic B4 HEALTH MATTERS** | | National Science Week |
|  |  |  |  | End of Topic B3 Test | Weekly Homework tasks |  |
| Required practical – Biochemical Food tests | |  |  |  | **Key Knowledge concept** = Looking at risk factors  **Attitudes and Skills TENSILE:** Numeracy, Enquiry, Team work  **Numeracy** = sampling and scientific data | |  |

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| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| **B4 Cont....** |  |  | **B4 Cont....** | **Revision for Exams** | **End of Year 9 Exams** | **B4 Cont....** | |
|  | Mid Topic Assessment |  |  |  |  |
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| 33 | 34 | 35 | 36 | 37 | 38 | 39 |  |
|  |  | Required Practical Consolidation | | Consolidation of Yr 9 Biology Content , Numeracy and Literacy skill Development | | |  |
|  | End of Topic B4 Test |  |
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