KS5 Curriculum: A Level Biology 2024-2025

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|  | Year 12 | | Year 13 | |
|  | Knowledge and skills | Enrichment | Knowledge and skills | Enrichment |
| Cycle 1 | * **1a Biological molecules** * **1b More Biological molecules** * **2c cells and the immune system** * **2a cell structure and division**   **Required practical 1& 2**    Assessments:  **Mid-Cycle:** assessments on material covered in 1a, 1b, 2a, 2c  **End of Cycle:** Longer assessment (up to 1 hr) on both topics. | Super-curricular reading – New Scientist magazine  Research activities from ‘The Big Picture’ (QR code in transition pack) | * **5a Photosynthesis and respiration** * **5b Energy Transfer and nutrient cycles** * **7a Genetics** * **7b Population and evolution** * **7c – Populations and Ecosystems**   **Required practicals 7, 8, 9**  Assessments:  **Mid-cycle –** End of assessments on material covered in 5a, 5b and 7a, 7b, 7c  **Full Mock 1 – 18th Nov – 29th Nov**  **(Full A level paper 1)** | Super- curricular reading – New Scientist magazine |
| Cycle 2 | * **2b Cell membranes** * **3a Exchange and Transport systems** * **3b More exchange and transport systems** * **4a DNA, RNA and protein synthesis**   **Required practical 3, 4 and 5**  Assessments:  **Year 12 mock exams – 13th Jan – 24th Jan (all topics covered so far)**  **Mid-Cycle:** assessments on material covered in 2b, 3a, 3b, 4a  **End of cycle:** Longer assessment based on whole exam paper 1. | Super curricular reading – New Scientist magazine  Research activities from ‘The Big Picture’ (QR code in transition pack) | * **8a Mutations and gene expression** * **8b Genome projects and gene technologies.** * **6a Stimuli and response** * **6b Nervous Co-ordination** * **6c Homeostasis**   **Required practicals 10, 11, 12**  Assessments:  **Mid-cycle –** End of assessments on material covered in 6a, 6b, 6c and 8a, 8b  **Full mock set 2 – 10th March – 21st March**  **(both papers 1 and 2)** | Super-curricular reading – New Scientist magazine |
| Cycle 3 | * **4b Diversity and selection** * **4c Diversity and classification**   **Required practical 6**  Assessments:  **End of year exams – 23rd June – 4th July (Whole paper 1)** | Super curricular reading – New Scientist magazine  Research activities from ‘The Big Picture’ (QR code in transition pack) | Revision/ Exams |  |