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 magazineResearch 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 magazineResearch 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 magazineResearch activities from ‘The Big Picture’ (QR code in transition pack) | Revision/ Exams  |  |