A level Biology KS5 Overview 2020-21

KS5 – AQA Biology A level 7401/7402

Website for in depth subject content: <https://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402>

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|  | Autumn 1  | Autumn 2 | Spring 1  | Spring 2 | Summer 1  | Summer 2 |
| Year 12 | **Biological molecules**Carbohydrates, Lipids, Proteins and Nucleic acidsRequired practical *Investigating enzyme activity* **Cells**  Microscopes, cell organelles and cell division Required practical *Observing mitosis in onion cells*  | **Biological molecules**Carbohydrates, Lipids, Proteins and Nucleic acids**Cells** Transport across membranes and immunityRequired practical *Investigating osmosis*  | **Exchange of substances**Gas exchange in insects, mammals, leaves and fish**Genetics and Variation** Genes and protein synthesis Required practical *Investigating leakage across membranes*  | **Mass Transport** Digestion, cardiovascular system and transport in plantsRequired practical *Heart dissection* **Genetics and Variation** Biodiversity Required practical *Growing bacteria*  | Catch up and review Exam preparation  | Exam preparation End of year exams  |

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|  | Autumn 1  | Autumn 2 | Spring 1  | Spring 2 | Summer 1  | Summer 2 |
| Year 13  | **Energy Transfer**Photosynthesis, Respiration and Energy flow in ecosystems Required practical *Investigating yeast and respiration* **Organisms response to environment**  Nervous system, muscles and homeostasis Required practical *Investigating response to stimuli*  | **Energy Transfer**Photosynthesis, Respiration and Energy flow in ecosystems Required practical *Investigating plant pigments*  **Organisms response to environment**  Nervous system, muscles and homeostasis  | **Genetics and Populations** Dihybrid crosses, populations and ecosystems**Gene expression**Gene expression, recombinant DNA and genetic fingerprinting | **Genetics and Populations** Dihybrid crosses, populations and ecosystemsRequired practical *Investigating plant pigments* **Gene expression**Gene expression, recombinant DNA and genetic fingerprintingRequired practical *Investigating the impact of an abiotic factor*  | Catch up and review Exam preparation  | Exam preparation Final exams  |