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| **A Level Biology** | |
| **Exam Board: AQA** | **Qualification Code: 7402** |
| **Subject overview:** | |
| **Combines well with**: Mathematics, Physics, Psychology  *To study for this course, it is desirable to study Chemistry* | |
| AQA A-level Biology has been designed to naturally progress from GCSE and take recognisable topics an academic stage further. Some topics, such as Biological Molecules and Nervous Coordination are studied in greater detail, while others broaden the GCSE experience and use   mathematics so that the qualitative understanding becomes more quantitative. The subject content is relevant to real world experiences and is challenging in its scope and depth. A-level Biology is a stepping stone to future study and will hopefully nurture a passion for Biology and lay the groundwork for further study in courses like Biological Sciences and Medicine. | |
| Course outline including assessment method: | |
| These qualifications are linear. Students will sit all the A-level examinations at the end of their A-level course.  Students will sit 3 x 2-hour examinations at the end of the two years course.  There is no coursework for A-level Biology which is 100% examinations.  Knowledge and understanding of practical work will be assessed in written examinations, about 15% of total marks in our A-level examinations will be based on practical questions. | |
| Year 1 Contents: | Year 2 Contents: |
| 1. Biological Molecules & Nucleic Acids 2. Cells and transport 3. Immunity 4. Exchange 5. Mass Transport 6. DNA, Genes & Protein Synthesis 7. Genetic Diversity 8. Biodiversity | 1. Photosynthesis & Respiration 2. Energy and Ecosystems 3. Nervous Coordination 4. Homeostasis 5. Inherited Change 6. Populations, Evolution and Ecosystems 7. Gene Expression 8. Recombinant DNA Technology |
| Resources and Facilities at TKAW: | Careers and Progression: |
| The Science Department at The Khalsa Academy Wolverhampton is well resourced with textbooks, specialist science equipment and state of the art laboratories. Students will benefit from using apparatus appropriate to     higher level qualifications and will practise the skills required by employers within and beyond the field of Science. | Many students who study the A-level route consider a career in the medical sciences, biochemical sciences or environmental sciences.  Other possible career paths could include NHS careers, engineering and education. |
| Entry Requirements: | |
| All students must have at least a grade 7-7 in GCSE Combined Science or, a minimum of grades 7/6/6 in the Separate GCSE Sciences with at least a grade 7 in the biology component of these GCSE Sciences.  Due to the high level of written communication for this qualification, all students must have at least a grade 6 in GCSE English Language. Due to the mathematical requirements of this course, all students must have at least a grade 6 in GCSE Mathematics. | |
| Who to contact: | |
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