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| **A Level Product Design** |
| **Exam Board: AQA** | **Qualification Code: 8552** |
| **Subject overview:** |
| **Combines well with:** Mathematics, Physics, Computer Science, IT, Business |
| This creative and thought-provoking qualification gives students the practical skills, theoretical knowledge, and confidence to succeed in several careers. Especially those in the creative industries. They will investigate historical, social, cultural, environmental, and economic influences on design and technology, whilst enjoying opportunities to put their learning into practice by producing prototypes of their choice. Students will gain a real understanding of what it means to be a designer, alongside the knowledge and skills sought by higher education and employers.A-level Design and Technology: Product Design requires students to engage in both practical and theoretical study. This specification requires students to cover design and technology skills and knowledge as set out below. These have been separated into:• Technical principles • Designing and making principles. |
| **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. Written exams comprise; **Technical principles** 2 hours and 30 minutes (30% of A-level) **Designing and making principles** 1 hour and 30 minutes (20% of A-level). **Non-exam assessment (NEA)** Substantial design and make project (50% of A-level)15% of total marks in our A-level examinations will be based on mathematical applications |
| **Year 1 Contents:** | **Year 2 Contents:** |
| 1. Performance of Papers and boards    2. Performance of Polymers 3. Performance of Woods 4. Performance of Polymers                                  5.Composites                                      6. Processing Paper and boards 7. Processing Polymers    8. Processing Metals9. Analysis of organic compounds 10. Industrial Practice  | 11. Product Design Considerations12. Product Design13. Design Methods14. Design Process15. Responsible Design16. NEA |
| **Resources and Facilities at TKAW:** | **Careers and Progression:** |
| The CAT Department at The Khalsa Academy Wolverhampton is well resourced with textbooks, specialist equipment and state of the art prototyping and modelling facilities. Students will benefit from using equipment and machinery appropriate to higher level qualifications and will practise the skills required by employers within and beyond the field of Product Design | Many students who study the A-level route consider a career in engineering, architecture, product/digital design, advanced construction.Creative industries are one of the fastest growing sectors with a huge demand for students with skills taught in this area. Chartered and consultant status yield some of the highest salaries in industry. |
| **Entry Requirements:** |
| All students must have at least a grade 5 in GCSE Design Technology and a minimum of at least a grade 5 in GCSE Mathematics and GCSE English Language. Students will be accepted following an individual suitability assessment. |
| Who to contact: |
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