



# Sandwell Academy

## Advanced General Certificate of Education (AS and A2) PRODUCT DESIGN

### WHY PRODUCT DESIGN?

*'Design and Technology is about making things that people want and that work well. Creating things is hugely exciting: it is an inventive, fun activity.'*  
**James Dyson**

This subject will provide you with opportunities to develop your practical skills, knowledge and understanding of the way products are designed, made and manufactured. The subject requires initiative, creativity, determination but most importantly the desire to develop even better solutions to meet the needs of clients. The course will also relate to and require understanding of core Mathematics and Science principles. The skills which Product Design will equip you with are highly sought after in the world of work and university.

The Course will prepare you for opportunities in:

All Engineering Courses	Product Design	Architecture
Management	Manufacturing	Ergonomics
Urban and Regional Planning	Education	
ICT Courses such as CAD or CAD/CAM		

### SPECIFIC ENTRY REQUIREMENTS

- Grade 5 in GCSE English or Maths
- Grade B/6 or above in a GCSE Design and Technology subject

### COURSE DETAILS

AQA Syllabus

**Runs as a linear course in which all exams and coursework will be assessed at the end of the 2 year course.**

### Examinations x 2

- Examination 1: 2.5 hours (120 marks)
- Based on Technical principles
- Worth 30% of the course- mixture of short and extended answers
  
- Examination 2: 1.5 hours (80 marks)

- Based on Designing and Making principles
- Worth 20% of the course- Mixture of short and extended answers
- Product analysis- worth 30 marks
- Commercial manufacture- worth 50 marks

### **Non Examination Assessment (NEA)**

Practical application of technical principles, designing and making principles.

#### **How it's assessed**

- Substantial design and make project
- 100 marks
- 50% of A-level

#### **Evidence**

Written or digital design portfolio and photographic evidence of final prototype.