**DESIGN AND TECHNOLOGY AT HANDSWORTH GRAMMAR SCHOOL**

In KS3 students rotate every 9-10 weeks to study a range of different DT areas.

Students are assessed three times during every rotation – two project-based assessments and an end of unit written exam. Dates of the assessments and outlines of lessons taught within each rotation can be seen in the course calendars in the front of students’ books or on the school website.

### YEAR 7

- **Design and Technology (electronics)**
  - Door buzzer project

- **Design and Technology (timbers)**
  -Sweet machine

- **Design and Technology (polymers and graphics)**
  -Product packaging

- **Food and Nutrition**
  -Food and cooking

### YEAR 8

- **Design and Technology (electronics)**
  - Sensor circuit

- **Design and Technology (prototyping)**
  -Table tennis bat

- **Design and Technology (CAD and enterprise)**
  -MP3 Player

- **Food and Nutrition**
  -Diet and health

### YEAR 9

- **Design and Technology (electronics)**
  -Safety light

- **Design and Technology (CAD and polymers)**
  -Clock

- **Design and Technology (CAD and graphics)**
  -Architecture

- **Food and Nutrition**
  -Making choices

### YEAR 10 and 11

Design and technology can be chosen as an option for GCSE.

#### AQA GCSE Design and Technology

- 50% NEA (coursework) and 50% written exam.
- Comprises of the different DT material areas timber, polymers, metals, electronics systems, textiles, papers and boards.
- Students will study core technical principles, designing and making principles, including a broad range of design processes, environmental issues and technical principles.

### YEAR 12 and 13

Product design can be chosen as an option for A-level for students who have studied GCSE DT and achieved a grade 6.

The course is run in collaboration with King Edward Aston School.

#### AQA A-LEVEL Product Design

- 50% NEA (coursework) and 50% written exam.
- Develop the skills learnt at GCSE and gain a real understanding of what it means to be an engineer or designer.
- Teaches researching, analysing, evaluating, ICT, problem solving skills.
- Includes topics on sustainable energy, climate change, economic factors, historical, cultural and social issues.

#### YEAR 12

- **Foodwise - Cooking on a budget while studying at university.**
- This course can be chosen as an option as part of the year 12 enrichment program.