



## DESIGN AND TECHNOLOGY

### Knowledge in Technology

GCSE Design and Technology will prepare students to participate confidently and successfully in an increasingly technological world. Students will gain awareness and learn how Design and Technology effects, social, cultural, environmental and economic factors. Students will get the opportunity to work creatively when designing and making and apply technical and practical expertise.

Design and Technology skills are integrated into three core topics:

- Core technical principals
  - Properties of materials
  - Mechanical devices
- Specialist technical principals
  - Industrial processes
  - Scales of production
  - Forces and stresses
- Designing and making principals
  - Research skills
  - Communicating design ideas
  - Prototype development
  - Selecting materials and components

### Curriculum Features

At Key Stage 3 the curriculum focuses on preparing students for GCSE Design and Technology. Students start with design and make tasks which build confidence in design, knowledge of materials, practical and evaluation skills. Students also learn about design and technology in the real world and how it affects a range of social, cultural, environmental and economic factors.

### Curriculum Enrichment

Design and Technology run an after school club for students who want a chance to design and make after school, tech club takes place each Thursday after school.