

# DESIGN TECHNOLOGY



# WHY CHOOSE D&T?

Do you like to ...  
Solve problems

**DRAW**  
Create

**FIX**  
take risks

**MAKE**  
Invent



# WHY CHOOSE D&T?

- This GCSE will equip you with a range of transferable practical and theoretical skills
  - Generate creative solutions to benefit people and the planet
  - Communicate and develop ideas through sketches, models and computer aided design
  - Learn how products are manufactured in industry
  - Manipulate materials and use tools to create your ideas
  - Work with leading edge technology and manufacturing techniques such as 3D printing and other computer aided design and manufacturing skills



# WHAT WILL I LEARN ABOUT?

- Range of topics including;
  - New and emerging technologies
  - Energy: generation, storage and choosing appropriate sources
  - Smart and composite materials
  - Mechanical devices used to produce movement
  - Electronic systems
  - Programmable components
  - Materials
  - Design Decisions
  - Past and present designers
  - Communication techniques

# HOW WILL I LEARN?

- D&T is a mixture of classroom, workshop, and computer lessons as well as online resources like Seneca Learning, BBC bitesize and technologystudent.com.....



# ASSESSMENT

**Written examination:** 1 hour and 45 minutes

50% of the qualification

100 marks

Content overview

- Core content
- Timbers

**Non-Examined Assessment (NEA):** Starts in June of Yr10

50% of the qualification

100 marks

Starts in June of Yr10

# EXAMINED ASSESSMENT

## Assessment overview

The paper consists of two sections. Section A is assessed on the core content and Section B is assessed on the material category students have chosen. 1DT0/1F – Timbers

### **Section A: Core**

This section is 40 marks and contains a mixture of different question styles, including open-response, graphical, calculation and extended-open-response questions. There will

be 10 marks of calculation questions in Section A.

### **Section B: Material categories**

This section is 60 marks and contains a mixture of different question styles, including open-response, graphical, calculation and extended-open-response questions. There will be 5 marks of questions in Section B.

# NON-EXAMINED ASSESSMENT

## Content overview

There are four parts to the assessment:

### 1 – Investigate

This includes investigation of needs and research, and a product specification

### 2 – Design

This includes producing different design ideas, review of initial ideas, development of design ideas into a chosen design, communication of design ideas and review of the chosen design

### 3 – Make

This includes manufacture, and quality and accuracy

### 4 – Evaluate

This includes testing and evaluation.

## Assessment overview

Students will undertake a project based on a contextual challenge released by us a year before certification. This will be released on 1st June and will be available for a year. The project will test students' skills in investigating, designing, making and evaluating a prototype of a product. Task will be internally assessed and externally moderated. Marks will be awarded for each part as follows.

- 1 – Investigate (16 marks)
- 2 – Design (42 marks)
- 3 – Make (36 marks)
- 4 – Evaluate (6 marks)



# CAREER PATHWAYS

- Natural progression is to study A-Level Design technology in 6th Form.
- Post 16 possible career options include:
  - Engineering (Mechanical, civil, electronic, environmental etc.)
  - Architecture
  - Mechanics
  - Maintenance or problem solving jobs
  - All trades (Building, carpentry, plumbing, electrician etc.)
  - Designing
  - Very helpful for work in industry which involves making.
  - Loads of different companies and factories would welcome people who have studied Design and Technology.

# HOW CAN I FIND OUT MORE?

- Exam Board: Edexcel
- Online for specification: <https://qualifications.pearson.com/en/qualifications/edexcel-gcses/design-and-technology-2017.html>

- Or contact;

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- We look forward to welcoming you to Design Technology in Year 10!