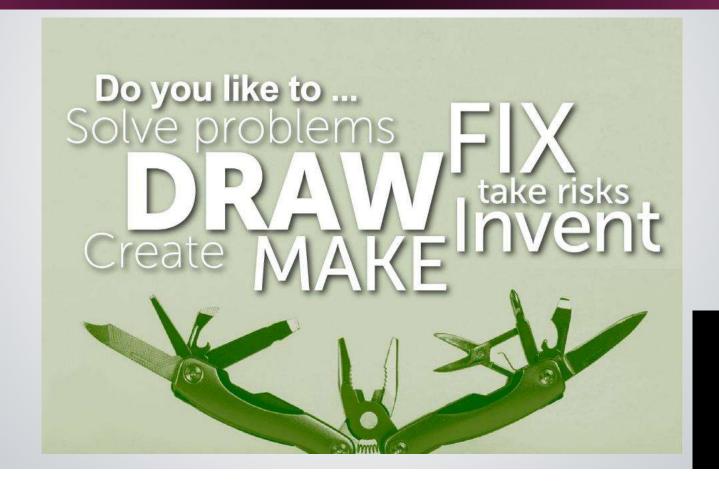
# DESIGN TECHNOLOGY



## WHY CHOOSE D&T?

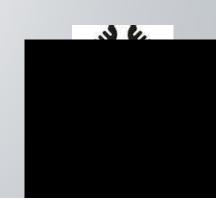


### WHY CHOOSE D&T?

- 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. 1DTo/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 availa project will test students' skills in investigating, designing, making and evaluating a prototype of a product. Task will be internally assessed and externally mode 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-andtechnology-2017.html
- Or contact;

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Mr Keenan padraigkeenan@desborough-college.net

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