

**WHAT ARE THE BIG AIMS OF YEAR 9 D&T?**

To continue to build on the aims of Year 7 and 8 plus:

- For pupils to understand that needs wants and values of people differs across different cultures and societal groups
- For pupils to be able to investigate an unfamiliar context identifying a number of possible areas for D&T activity
- Design ideas begin to indicate the conflict and compromise inherent in the process
- Pupils understand that choice of materials has economic, ethical and environmental consequences
- Pupils are able to select and justify/evaluate the use a range of appropriate tools and equipment
- Evaluative skills are employed throughout every stage of the design and make process

**WHAT WILL EXCELLENCE LOOK LIKE IN YEAR 9?**

- Pupils are able to analyse a given scenario and identify what problems/opportunities may arise
- They are able to formulate a range of design briefs and select the most suitable
- Design ideas are evaluated against the specification and user needs and include details of construction, assembly and finish
- Manufacturing plans follow a logical achievable sequence
- Pupils are increasingly skilled with a wider range of equipment and can justify a given process
- Every stage of the design and make process is accompanied by an evaluative commentary

**WHAT KNOWLEDGE DO THE PUPILS NEED TO ACQUIRE?**

- Material sources, properties and the impact of using them
- Safe working practices for all D&T areas
- Essentials of the construction industry including careers and professions throughout DEC certificate
- Design processes and development building from previous year

**WHAT SKILLS DO THE PUPILS NEED TO DEVELOP?**

- Identifying problems and writing briefs in unfamiliar contexts
- Communicating design ideas using 2d and 3d techniques
- Synthesising design ideas that account for ethics and sustainability
- Appreciate that the definition of 'best idea' will be open to debate
- Selecting, safely and accurately using specialist tools and equipment
- Applying prototype tests to inform further developments

**WHAT MISCONCEPTIONS MAY THEY HAVE FROM PREVIOUS LEARNING?**

D&T is mainly concerned with making. Designing is the same as drawing. That material areas operate in isolation. Initial ideas can be rejected and forgotten. The financial cost of a product is the major factor in deciding its worth or value

**WHAT ASSESSMENTS WILL BE USED ACROSS THE YEAR TO DEMONSTRATE HOW THE PUPILS HAVE ACQUIRED THE KNOWLEDGE AND DEVELOPED THE SKILLS?**

Technology operates a rotation carousel system with students spending approximately nine weeks on each specialism of Textiles, Resistant Materials and CAD/Electronics. At the end of each rotation students are assessed on three key strands where appropriate – completed practical piece which is subject to continual assessment, design skills displayed in workbook/worksheets where appropriate and theoretical knowledge through an end of rotation MCQ. During our Year 9 carousel, students will have the opportunity to earn a certificate of completion for Design, Engineer, Construct (DEC)