D&T KS3

Next steps...

...Options

...D&T GCSE

Year 9 Timber project

- Evaluate the different stages of making a prototype.
- Follow simple written instruction for making a prototype.
- Will follow the design process
- Model and make a finished product.
- Make design decisions, evaluate and improve design where and when appropriate.

Year 8 Sketching and modelling

- Use a variety of medium to show concept designs
- Make effective scale models of their designs
- Use CAD throughout the development process of designing.
- Develop a specification and design ideas from a design context

Year 7 *Mechanical*Systems

- ◆ To use tools and equipment in the workshop to make a working mechanical/ automated toy.
- Recognise and name the four different forms of movement.
- Understand how an input motion can be changed to a different output motion by a mechanism
- Use different cams and followers to design mechanisms

Curriculum Map Assessment Tests:

Learners will be given quizzes at the start of each lesson.

End of unit test: At the end of each unit a test would be given to secure their knowledge and understanding.

Year 9 Functionality & Aesthetics

- Drawing and sketching:
- Making design choices:
 Using tools and equipment for modelling.
- Being able to generate design ideas inspired by organic form.
- Recognise where and how architectural examples have been inspired by organic forms.
 - Generate their own design ideas inspired by organic forms.

Year 8 Innovation through iterative design

- Generate a range of ideas through sketching and modelling, testing and evaluating
- Use a range of tools and equipment to make a model or prototype
- Use a range of modelling material to produce a final prototype.
- Use the iterative design process to develop design ideas

Year 7 Problem Solving

- List different ways to research a design problem
- Define the terms: user, client, target market and ergonomics
- Product analysis.
- Create a design specification
- Recognise the terms 'consumer-' and 'focus groups'
- Produce a working product.
- Generate ideas designed for disabled users



Solving