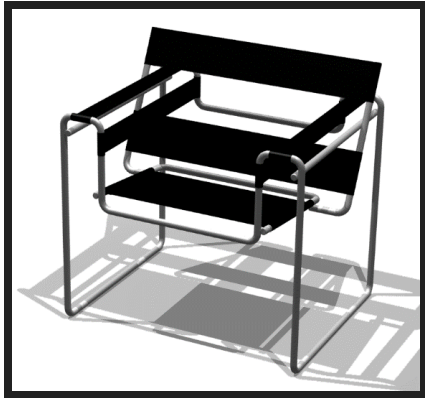


OPTIONS IN THE D&T DEPARTMENT



Nearly everything we own has had a designer or engineer involved in its journey to manufacture.



These subjects develop key **life skills** and equip you with the knowledge and confidence to **problem solve**, **experiment** and **analyse**.

Skills that you will use every day even if you decide against a design-based career.

WHAT ARE MY OPTIONS IN THE D&T DEPARTMENT:



AQA GCSE Design & Technology:

Our GCSE allows students to study core technical and designing and making principles, including a broad range of design processes, materials techniques and equipment. Students will learn in a variety of style lessons:

- Design and Make activities (DMAs)
- Focused Practical Tasks (FPTs)
- Product Analysis
- Technical Knowledge (theory lessons)

Students will develop the following skills:

- Problem solving and creativity
- Working from design briefs and designing for consumers
- Designing and sketching skills (including CAD)
- Modelling and prototyping in 3D (including CAD/CAM)

Your work is assessed with **50% Non-exam assessment** and **50% exam based assessment**



WHAT ARE MY OPTIONS IN THE D&T DEPARTMENT:



Cambridge National (Level 1 or Level 2) in Engineering Design:

40% is an examination (R038) and 60% of this course (R039 and R040) is non-exam assessment:-

R038: Principles of Engineering Design (examination)- In this unit you will learn about the design process, and all the stages that are involved. Topics include:

- Designing processes
- Designing requirements
- Communicating design outcomes
- Evaluating design ideas

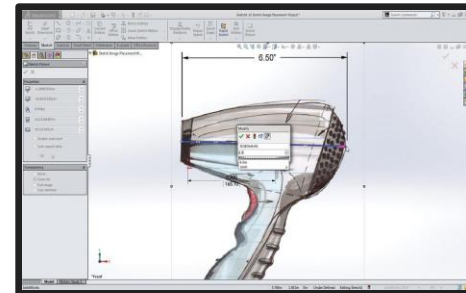


R039: Communicating Designs (NEA)- In this unit you will learn how to use sketching and engineering drawings to communicate your ideas. Topics include:

- Manual production of freehand sketches
- Manual production of engineering drawings
- Use of computer aided design (CAD)

R040: Design, Evaluation and Modelling (NEA)- In this unit you will learn how to create and test models of your design. Topics include:

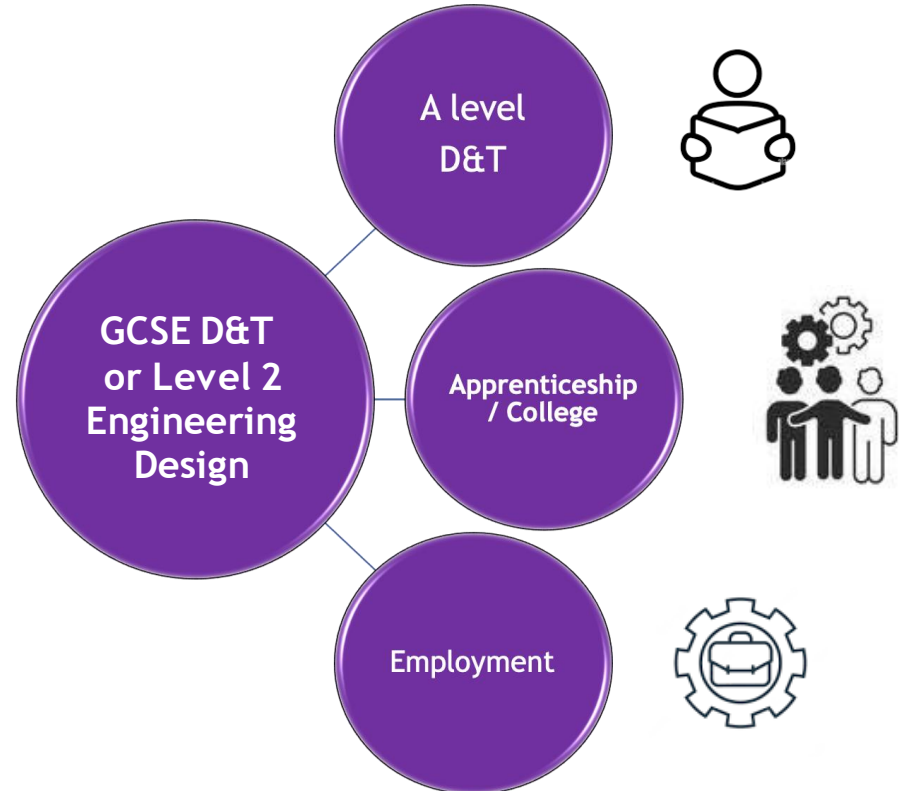
- Product evaluation
- Modelling design ideas



PATHWAYS AFTER D&T / ENGINEERING DESIGN:



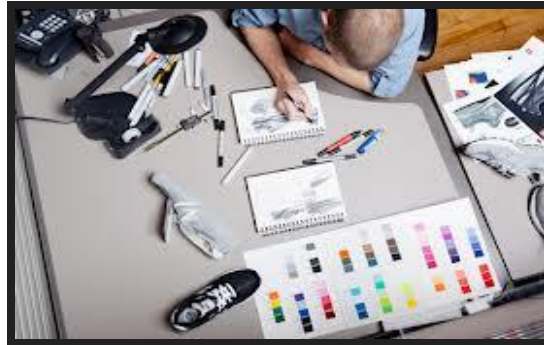
- These skills will help you progress onto further study in the engineering, design and development sector.
- This may be Level 3 qualification here at Hilbre High School, such as A Level Design and Technology.
- Alternatively, other vocational qualifications, such as the Cambridge Technical in Engineering, A Levels, or one of the number of Design and Development Technician Apprenticeships.
- Please seek further guidance using 



CAREERS IN D&T:

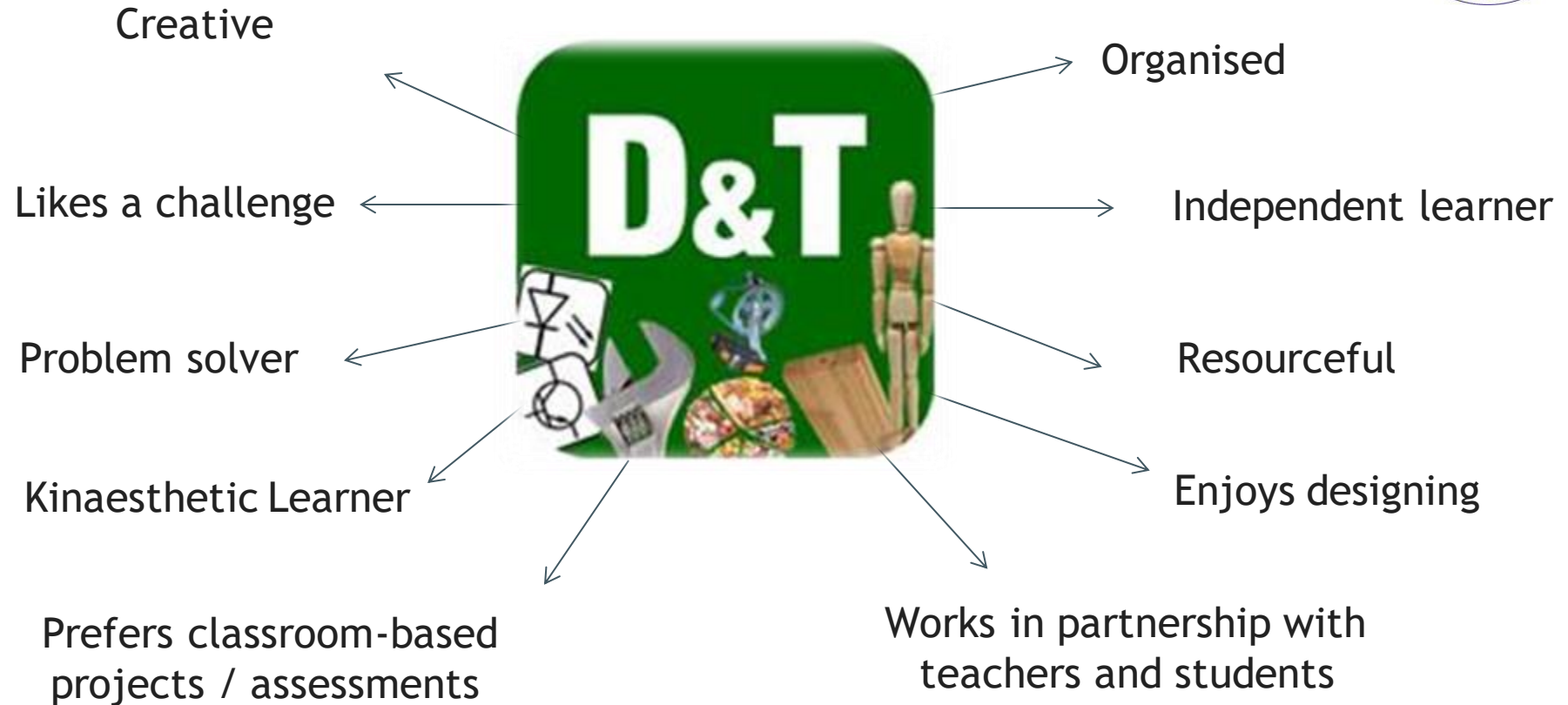


- Product Designer
- Furniture Design and Manufacturing
- Architecture
- Interior Design
- Engineering
- CAD Designing and Engineering
- Marketing
- Packaging Design
- Mechanical Engineering
- Car Design and Manufacturing



- Carpentry, Engineering or Joinery
- Apprenticeships in trade or manufacturing industry
- STEM related careers
- Music Technology
- Fashion Designer
- Shoe Designer
- Fashion Management
- Artist
- Photography
- Comic Book Designer
- ICT Careers (e.g. Gaming Industry)
- Many, many more....

WHAT ARE THE CHARACTERISTICS OF A D&T PUPIL



ANY QUESTIONS



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Mrs. Stewart (Progress Leader for D&T)

Mr. Dabek (D&T and Engineering Teacher)

Mr. Prouse (D&T and Engineering Teacher)