

# THA Design and Technology Learning Journey



**Core Content & Specialist Knowledge:** Revise and practice exam papers in preparation for your final exam in DT

## Issue Evaluation

Final Exam

Exam Revision

**AO3: Evaluate & Test:** Gain feedback throughout your project and test your final product – have you met your brief?



**AO2: Realise Design Ideas:** Manufacture your product using skills and processes used throughout the DT journey.

**AO1: Specification & Brief:** Clarify the needs and wants of the project writing your own brief & specification



**Design:** Designing products. How do be creative with design. Use of drawing techniques and CAD software when designing.

**Investigate the design possibilities:** What is the design context? What research can you carry out to gather ideas?



**Initial Concept Sketches:** What ideas do you have already? Can you visualize them?

**Materials / Make:** Use materials you have not combined before such as acrylic and timber to develop a unique stylized product.

Skills building



**Design:** Reference key design movements to develop a stylish functional product.

**Students who have chosen AQA Design and Technology GCSE**

## YEAR 10

**This is 6 months work – Students will then move onto D&T**

**Evaluate:** How has your model met the design criteria?



**Testing / Modelling:** Will my product work? What can I do to improve it?



**Make:** Use styrofoam to model and communicate design ideas



**Design:** Using anthropometric data to design a handheld product

Ergonomic Design



**Evaluate:** How has your model met the design criteria?

**Testing / Modelling:** Will my product work? What can I do to improve it?



**Design:** Research biomimicry design to inspire design ideas



**Make:** Complete quality control checks to ensure accuracy



**Materials:** Wood classification. Where does timber come from?



Working with Timbers



**Introduction to the workshop:** Health and safety

**Make:** Use corrugated card to model and communicate design ideas



**Make:** How to fix / join materials together? Focus on wood joints



**Make:** Use hand tools and machines to complete skill challenges



**Materials:** What materials will be appropriate for your product? What materials are sustainable?



**Make:** Use a wide range of tools and processes to produce your final product.



## YEAR 9

**This is 2 terms work – Students will then move onto Food Studies**

**Analysis:** What are the different types of research?



**Analysis:** Who is Tatty Devine?



**Design:** What is a specification?



**Design:** Create new design ideas?



**Making:** Development through modelling ideas



**Design:** What is a design brief?



**Design:** How to present 3D drawings using isometric perspective



**Make:** Complete quality control checks to ensure accuracy



**Materials:** Wood classification. Where does timber come from?



**Making:** What is packaging?



**Make:** Make a product that is suitable for batch production



**Evaluation:** How to evaluate your work?



**Scales of Production:** What are the manufacturing processes?



**Make:** How to fix / join materials together?



**Make:** Use hand tools and machines to complete skill challenges



**Introduction to the workshop:** Health and safety



Working with Timbers

**Design:** What is the difference between cool and warm colours?



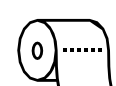
**Make:** What is a production aid?



**Making:** Create a wallpaper design



**Materials:** What are the different Paper and Board materials?



**Make:** How do you create a simple flat shape from a complex image?



**Design:** What is the difference between 2d and 3d?



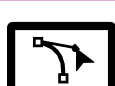
**Design:** How to create a pattern



**Design:** What are the different printing techniques?



**Design:** What does a graphic designer do?



**Environment:** What are the 6Rs of sustainability?



**Scales of Production:** What are the manufacturing processes?



**Make:** How to fix / join materials together?



**Make:** Use hand tools and machines to complete skill challenges



**Introduction to the workshop:** Health and safety



Working with Timbers

## YEAR 7

**This is 2 terms work – Students will then move onto Food Studies**

**Make:** Make a keyring that is suitable for batch production



**Design:** To present 3D drawings using isometric perspective



**Make:** Complete quality control checks to ensure accuracy



**Materials:** Wood classification. Where does timber come from?

