



## QPHS Year 11 Design Technology Curriculum Map

Term	Title	Unit summary	Assessment
1	<b>Design Development and Prototyping</b>	Students will continue to develop design ideas that meet their brief using a range of different design techniques including CAD modelling and prototyping to produce a final design. While designing students will evaluate their work, complete further research into materials and manufacturing processes and communicate with their client to provide feedback and evaluation.	Portfolio work is assessed holistically and will evidence students ability to:  <b>AO1 Identify, investigate and outline</b> design possibilities to address needs and wants <b>AO2 Design and make</b> prototypes that are fit for purpose <b>AO3 Analyse and evaluate:</b> design decision and outcomes including for prototypes made by themselves and others wider issues in design and technology
2 3	<b>Manufacturing</b>	Students will work to a technical drawing of their final design to manufacture a final working prototype. Students will independently select suitable materials and processes suited to their design and ensure Quality control and assurance are carried out throughout the manufacturing process. Students will keep a manufacturing diary of the process recording and evaluating each step and providing photo evidence.	Portfolio work is assessed holistically and will evidence students ability to:  <b>AO1 Identify, investigate and outline</b> design possibilities to address needs and wants <b>AO2 Design and make</b> prototypes that are fit for purpose <b>AO3 Analyse and evaluate:</b> design decision and outcomes including for prototypes made by themselves and others wider issues in design and technology
4	<b>Testing and Evaluating</b>	Students will test and evaluate their final prototype against their design specification, Justifying their responses and giving recommendations for improvements or alternative materials and manufacturing techniques. Students will also analyse and evaluate the feedback from their client about the final prototype.	Portfolio work is assessed holistically and will evidence students ability to:  <b>AO3 Analyse and evaluate:</b> design decision and outcomes including for prototypes made by themselves and others wider issues in design and technology
5	<b>Revision</b>	Students will revisit all theory booklets covered in year 10 and complete past papers. They will carry out their own research tasks to embed and develop their understanding of the theory knowledge.	Portfolio work is assessed holistically and will evidence students ability to:  <b>AO3 Analyse and evaluate:</b> design decision and outcomes including for prototypes made by themselves and others wider issues in design and technology  <b>AO4 Demonstrate and apply knowledge and understanding of:</b> <ul style="list-style-type: none"> <li>• technical principles</li> <li>• designing and making principles</li> </ul>