

## Year 8 Design Technology

Students develop the key skills that they have started in year 7, developing the range of materials knowledge specifically around plastics. Their knowledge from the previous year is tested through retrieval questioning making reference back to previous projects in the form of tools and materials. Note each of the project's skills are closely linked to the previous year.

Year 8 Curriculum	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<b>Topic(s)</b>	<p><b>Mobile</b> Students are developing knowledge of <b>timber</b> by producing a Mobile. This will focus on improving their marking out, cutting and shaping skills.</p>	<p><b>Toy Design</b> Students to develop CAD skills producing a 3D Gingerbread man followed by a 3D Toy of their own design. They are learning, push, pull, rotate, material rendering, dimensioning and adding textures. They are also learning design and spatial awareness.</p>	<p><b>Toy Design</b> Students to develop CAD skills producing a 3D Gingerbread man followed by a 3D Toy of their own design. They are learning, push, pull, rotate, material rendering, dimensioning and adding textures. They are also learning design and spatial awareness.</p>	<p><b>Year 8 Clock Design</b> Students design a clock for a target market based upon the Memphis design movement. They sketch out and model a range of design proposals.</p>	<p><b>Year 8 Clock Making</b> They develop their making skills using a range of tools including the coping saw – tenon saw – pillar drill – sander – line bender and are introduced to CAD/CAM by producing decals using the plotter. A range of materials are used including MDF- acrylic – vinyl and wood stains</p>	<p><b>Year 8 Clock Making</b> They develop their making skills using a range of tools including the coping saw – tenon saw – pillar drill – sander – line bender and are introduced to CAD/CAM by producing decals using the plotter. A range of materials are used including MDF- acrylic – vinyl and wood stains</p>
<b>Assessment</b>	Students Health and Safety and practical skills are assessed.	Students CAD skills are assessed through this unit and their ability to work independently.	Students CAD skills are assessed through this unit and their ability to work independently.	Communicating ideas and designing skills.	Communicating ideas and designing skills.	Practical skills based on product created and skills shown.

### Independent Work

Mobile-  
Toy Design - Practice on Google Sketchup tasks.  
Memphis - History quiz on Memphis Design movement.  
Memphis - Finish designing ideas that started in class.