

## Year 7

Timing	Unit title	Key question	Knowledge	Assessing understanding
1X term on rotation	Alessi Inspired Clock Project	<p><b><i>Can a product have personality?</i></b></p> <p>1. Alessi design company</p> <p>2. Form, function and aesthetics in design</p> <p>3. Impact of polymers on the environment</p>	<p>*Aesthetics - how practising designers apply creativity</p> <p>*Analyse the work of others</p> <p>*Develop knowledge of past and present companies and designers</p> <p>*Develop design skills that avoid design fixation</p> <p>*Develop and test ideas using mathematical card modelling</p> <p>*Environment and sustainability - understanding the impact of single use plastics on the environment.</p> <p>*Selection of specific tools, their use and H&amp;S</p> <p>*Detailed technical understanding of processes used</p> <p>*Test and evaluate their work against the set criteria</p>	<p>*A range of Alessi inspired designs for clocks</p> <p>*Models and templates used to plan a successful prototype</p> <p>*Prototype manufactured to a high standard</p> <p>*Objective evaluation of outcome</p> <p>*Communication with subject specific language</p> <p>*Cohesive project that evidences stages of learning</p>
Extension	Alessi Biscuit cutter	<p><b><i>Creating a biscuit cutter using rapid prototyping</i></b></p>	<p>*Understanding the benefits of 3D printing technology</p> <p>*Learning to use Onshape</p>	<p>*3D printed biscuit cutter</p> <p>*Testing the prototype</p>
1X term on rotation	Sublimation printed Sleep Mask	<p><b><i>How can we aid restful sleep?</i></b></p> <p>1. Machine confidence</p>	<p>*Researching designers that use the theme of identity</p> <p>*Creation of an original fabric using the</p>	<p>*Use of a moodboard to explore the theme and create ideas</p>

	Project	<p>2. Design for a user using digital software</p> <p>3. Natural &amp; synthetic fabrics</p>	<p>theme 'identity'</p> <p>*Computer aided design used to create a unique fabric</p> <p>*Learn about fabrics and their properties including suitability for sublimation printing</p> <p>*Quilting skills and historical context</p> <p>*Sewing machine skills used in the development of a sleep mask</p> <p>*Step by step to making to aid recall of key processes</p>	<p>*Accurate use of a sewing machine to make a quilted sleep mask</p> <p>*Step by step to making highlighting key processes</p> <p>*Objective evaluation of outcome</p> <p>*Communication with subject specific language</p> <p>*Cohesive project that evidences stages of learning</p>
1X term on rotation	<b>Healthy Eating Project</b>	<p><b><i>What foods should we eat to stay healthy?</i></b></p> <p>1. Nutrients and food groups-analysis</p> <p>3. Cutting, weighing and measuring ingredients</p> <p>3. Choosing and cooking healthy dishes</p>	<p>*Understanding the key principles of healthy eating</p> <p>*Applying nutritional understanding to every day dishes</p> <p>*Understanding how to prepare a range of dishes safely</p> <p>*Modifying a basic recipe to integrate nutritional guidelines studied</p> <p>*Application of maths skills using metric scales for dry and liquid ingredients</p> <p>*Identifying qualities such as accuracy and consistency</p> <p>*Sensory evaluation and star chart evaluations</p>	<p>*Understanding food groups and the Eatwell Guide</p> <p>*Application of healthy eating principles to planning of food products</p> <p>*Application of skills to produce quality food products</p> <p>*Objective evaluation of outcome</p> <p>*Communication with subject specific language</p> <p>*Cohesive project that evidences stages of learning</p>