

SCHEME OF LEARNING – DESIGN TECHNOLOGY – YEAR 7

Year 7 SOL – Health and safety/Earphone Wrap					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p>AO Health and safety introductory project with the main focus on safety using machinery and safe practice in the workshops.</p>	<p>AO Develop understanding of key design project requirements through the earphone wrap project.</p>	<p>AO Use prototyping and making skills to produce an accurate and well developed earphone wrap with packaging. Develop evaluative skills to analyse the product made.</p>	<p>AO Health and safety introductory project with the main focus on safety using machinery and safe practice in the workshops.</p>	<p>AO Develop understanding of key design project requirements through the earphone wrap project.</p>	<p>AO Use prototyping and making skills to produce an accurate and well developed earphone wrap with packaging. Develop evaluative skills to analyse the product made</p>
<ul style="list-style-type: none"> - Health and safety intro and checklist - Health and safety simpsons poster and safety analysis - Machinery safety information and use through a mini practical challenge using greyboard to familiarise pupils with machinery 	<ul style="list-style-type: none"> - Design brief and specification (Core GCSE Skill) - Research into the design work of Alessi - Alessi moodboard - Design ideas page and discussion of presentation and annotation of work (Core GCSE Skill) - Prototypes and discussion of why they are used/needed. Intro to James Dyson. - Making and testing of 	<ul style="list-style-type: none"> - Re-prototyping the final developed idea in MDF. Recaps core safety skills. - Making of final earphone wrap - Packaging design and what should be included on packaging such as safety information, ingredient etc (Link to food) - CAD Design (if possible with timetabling). Intro to 2D Design and laser cutter as CAD/CAM 	<ul style="list-style-type: none"> - Health and safety intro and checklist - Health and safety simpsons poster and safety analysis - Machinery safety information and use through a mini practical challenge using greyboard to familiarise pupils with machinery 	<ul style="list-style-type: none"> - Design brief and specification (Core GCSE Skill) - Research into the design work of Alessi - Alessi moodboard - Design ideas page and discussion of presentation and annotation of work (Core GCSE Skill) - Prototypes and discussion of why they are used/needed. Intro to James Dyson. - Making and testing of 	<ul style="list-style-type: none"> - Re-prototyping the final developed idea in MDF. Recaps core safety skills. - Making of final earphone wrap - Packaging design and what should be included on packaging such as safety information, ingredient etc (Link to food) - CAD Design (if possible with timetabling). Intro to 2D Design and laser cutter as CAD/CAM

	<p>prototypes. Evaluating and developing designs forwards.</p>	<p>production processes. (Core GCSE Skill)</p> <ul style="list-style-type: none"> - Vacuum forming process - Final design and making evaluation vs design brief and specification. (Core GCSE Skill) 		<p>prototypes. Evaluating and developing designs forwards.</p>	<p>production processes. (Core GCSE Skill)</p> <ul style="list-style-type: none"> - Vacuum forming process - Final design and making evaluation vs design brief and specification. (Core GCSE Skill) 		
<p>Assessment : Use of book creator to show the work produced through the safety project and the beginning of the earphone wrap.</p> <p>Assessing: AO1.3, 2.1, 2.3 through the alessi moodboard and the following design pages with annotation. Then AO's 3.1/2/3 through the card prototype, test piece and the health and safety project information.</p>		<p>Assessment: Book Creator for making and evaluation sections of the earphone wrap and it's packaging.</p> <p>AO3 - Solidified through continued use of machinery and equipment. Embedding knowledge.</p> <p>AO4 – Evaluation of completed product and its component pieces. This will be tested by the user and peer marked. This should be linked back to the design brief and specification to embed key GCSE skills early.</p>		<p>Assessment : Use of book creator to show the work produced through the safety project and the beginning of the earphone wrap.</p> <p>Assessing: AO1.3, 2.1, 2.3 through the alessi moodboard and the following design pages with annotation. Then AO's 3.1/2/3 through the card prototype, test piece and the health and safety project information.</p>		<p>Assessment: Book Creator for making and evaluation sections of the earphone wrap and it's packaging.</p> <p>AO3 - Solidified through continued use of machinery and equipment. Embedding knowledge.</p> <p>AO4 – Evaluation of completed product and its component pieces. This will be tested by the user and peer marked. This should be linked back to the design brief and specification to embed key GCSE skills early.</p>	

Rationale:

Pupils must cover health and safety to allow themselves to work responsibly and be trusted in workshop environments. Engaging pupils rapidly in using machinery and hand tools will allow them to be enthused by the subject and make links between core theory and practical work.

The earphone wrap is a relevant project for most pupils and will provide an interesting opportunity for pupils to develop their design skills on a project they are enthused about but also introduce them to core GCSE skills and theory areas such as influential designers and the iterative design process.

With the new GCSE the core skills must be embedded early to allow pupils to see the journey they are undertaking and its relevance in design throughout school and in industry.