

Earphone wrap Project

Project Brief

Design and manufacture your own personalised earphone wrap.

Project Context

Many people use earphones to play music into their ears. When users are finished using them, they tend to be placed inside of their pockets to be used again later. When taking them out of the pocket, they can become

Lesson	Content	Completed?		
		Y / N	Prior	New learning
1	<ul style="list-style-type: none"> Introduction of 2D Design Aesthetics <p>Homework: Research and create a mood board of different earphone wraps on A4 paper (minimum of 5 different earphone wrap designs).</p> <p>Challenge: Explain WWW (what works well) and EBI (even better if) for each earphone wrap design on your mood board.</p> <p>Further challenge: Analyse each earphone wrap design on your mood board using ACCESSFM key words (Aesthetics, Cost, Consumer, Environment, Safety, Size, Function and Material).</p>			
2	<ul style="list-style-type: none"> Designing of earphone wrap Ergonomics 			
3	<ul style="list-style-type: none"> Development of earphone wrap Anthropometrics <p>Homework: Research and define 'anthropometrics' and explain why is important to use when designing products.</p> <p>Challenge: Give a product example and explain what anthropometric data is used (what part of the human body is measured to create your chosen product).</p> <p>Further challenge: Research and define the term 'anthropometric 95th percentile' and explain how this is used to compare the human body from different countries.</p>			
4	<ul style="list-style-type: none"> Completion of earphone wrap CAD and CAM 			
5	<ul style="list-style-type: none"> Sustainability The 6 R's Analysis and evaluation <p>Homework: Research and create a sustainability poster explaining the 6R's (Recycle, Reuse, Refuse, Rethink, Reduce & Repair).</p> <p>Challenge: Research and explain as many different environmental problems as you can such as growing rubbish landfills.</p> <p>Further challenge: Research and define the term 'environmental footprint' and explain how we can have a better footprint follow</p>			



Why are we creating an acrylic earphone?

You are learning how to make an acrylic earphone wrap:

- ◆ To enhance your CAD skills for future designing
- ◆ To develop your knowledge of materials in preparation for what is required at GCSE level and beyond

Student Self Evaluation

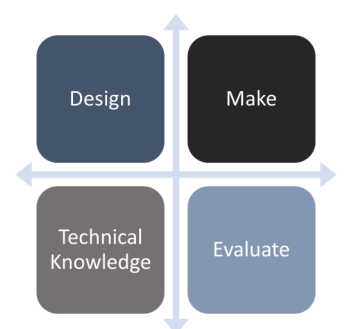
WWW

EBI

Challenge!

What areas of the four key concepts for Design & Technology have you worked in during this cycle?

Circle your response



LEARNING TOOLS

Tick when you think you are able to define the meaning of the keyword

KEYWORDS	Ergonomics	Sustainable	Aesthetics	Function
CAD	CAM	Anthropometrics	Manufacture	Acrylic

Challenge! Can you add more keywords you have covered?

Cycle 2 Acrylic earphone wrap:

My Expected Grade				
Teacher Assessed Grade (circle)				
SBE	BE	E	AE	SAE
Comment:				

Grade	
8 - 9	<p>I can...</p> <p>Use the correct processes (CAD and CAM) to manufacture a functional product that contains a high level amount of skill and accuracy</p> <p>Define and provide examples of the key words in a range of different context, demonstrating a secure understanding of my knowledge</p> <p>Chose the correct materials that will enable me to manufacture a creative and successful product that functions</p> <p>Provide a detailed analysis and evaluation that will enable me to make important critical and analytical points</p>
6 –7	<p>I can...</p> <p>Use some of the processes to make a product that is aesthetically pleasing and works well</p> <p>Demonstrate some understanding of the key words that have been delivered on the project</p> <p>Use materials to produce a product that works well</p> <p>Write an analysis and evaluation on my product and include some pros and cons</p>
4 –5	<p>I can...</p> <p>Use most of the of techniques and processes that I have been taught to make an earphone wrap</p> <p>I know most of the key words</p> <p>I can collect the materials that I have been provided with to make a product that works</p> <p>I can write good points and bad points about my work</p>