

Sustainability Problem Solving Project

Project Brief

Design and make a product that is made from 'used' products/materials.

Project Context

Working towards a sustainable future

Lesson	Content	Completed?	
		Y / N	EFFORT
1	<ul style="list-style-type: none"> Introduction to sustainability: Blue Planet Analysis of packaging designs <p><i>Homework: Research Eco Design examples</i></p>		
2	<ul style="list-style-type: none"> The context & Brief Analysis of brief Idea generation 		
3	<ul style="list-style-type: none"> Development of ideas & final design Practical: begin making product design <p><i>Homework: plan of manufacture</i></p>		
4	Practical: making of product		
5	Continue/complete practical Time check—plans for modification due to time? <i>Homework: revision for assessment</i>		
6	Product review		



Why are we learning how about sustainability?

You are learning about sustainability so that you:

- ◆ Have an understanding of the world around you
- ◆ Are able to develop your design concepts with understanding of sustainability and environmental considerations

Student Self Evaluation

WWW
EBI

LEARNING TOOLS

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

KEYWORDS	Context	Sustainability	6R's	Eco Design
Aesthetics	Consumer	Manufacture	Flowchart	Analysis
Recycle	Re-use	Rethink	Reduce	Refuse
				Repair

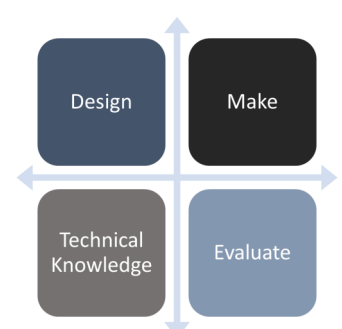
Challenge! Can you add more keywords you have covered?



Challenge!

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

Circle your response



Cycle 6 Sustainability Problem Solving Project

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

Grade	I can...	Prior	end
8 - 9	<p>I can...</p> <p>Explain the difference between each of the R's of sustainability</p> <p>Define what sustainability is using appropriate language to include: needs; eco; environment and demand</p> <p>Explain the difference between the different types of recycling: primary; secondary & tertiary</p> <p>Explain, identify and examine a range of 'Eco Design' products or designers</p> <p>Produce a 3D drawing of bridge proposal accurately drawn to scale and as a result of effective research</p> <p>Annotate my ideas in detail; making links to materials; sizes; sustainability</p> <p>Carry out research that is analysed and evaluated effectively in order to inform my design decisions</p> <p>Design and make a product from recycled materials that is fully functional; innovative and desirable</p>		
6 -7	<p>I can...</p> <p>Explain each of the 6 R's of sustainability</p> <p>Define the term sustainability using a range of appropriate key words</p> <p>Explain the difference between recycle and reuse.</p> <p>Explain what 'Eco Design' is and am able to give examples</p> <p>Respond effectively to research and draw an eco design in 3D evidencing knowledge and understanding of sustainability</p> <p>Use annotation skills in order to communicate ideas clearly.</p> <p>Carry out effective research and use this to develop and inform my design decisions</p> <p>Make a product from recycled materials that is usable and attractive</p>		
4 -5	<p>I can...</p> <p>Explain what the 6R's of sustainability are</p> <p>Define the term sustainability</p> <p>Explain what recycling is</p> <p>Explain what 'Eco Design' is</p> <p>Respond to research and draw a suitable design to be made in school</p> <p>Use annotation skills by adding notes to explain my ideas</p> <p>Research within the topic and provide evidence of this</p> <p>Make a product from recycled materials</p>		