

1. Statement of task – ‘The Challenge’
 Students will identify client’s needs and take other factors into account in preparing a design brief for a structure. They will design an environmentally sensitive and aesthetic structure to fulfil this brief and communicate the design through sketches, plans and models. They will give due considerations to site, structure and materials, quantities and costs.

2. for age / stage / level?
 S2 (26 pupils)

3. Involving these curricular areas (tick)

Expressive arts *	Religious and moral education
Health and wellbeing	Science*
Languages	Social studies*
Mathematics*	Technologies*

4. Enactment – what we are going to do ‘we are learning today’

Other Areas	Geography Aims	Technology Aims	ICT
2. Techniques of financial costing (Maths)	3.Environmental sustainability	4.Writing a design brief	7. Working together
5. Estimating quantities (Maths)	7. Working together	7. Working together	13.Translating information from one form to another
10. Measuring (Maths)	8. Justifying site location	8. Justifying structure	Formal letter writing
12. Scale (Maths)	11. Negotiating skills	9. conventions	ICT for presentation
	12. Scale drawing of site.	11 Negotiating Skills	Modeling software techniques
	13. Translating information from one form to another.	6. Explaining cultural and aesthetic appropriateness of structure.	
	16. Weather and climate influences	13. Translating information from one form to another	
	17. Visualising	14. Understanding and using a design process	
		17. Utilising the language of architectural form and style.	
		18. Visualising	
		15. Basic engineering concepts e.g. strength of materials and balancing forces.	

6. The Outcome – description of acceptable performance and pupil demonstrations ‘what I’m looking for’

Pupil Task/Performance Criteria

- Produce individually a written report and in your groups a 10 minute multi-media presentation, of your chosen structure.
- Consideration must be given to;
 - * Site location
 - * Structure design, considering; sustainability/environment/aesthetics/clients needs/planning regulations.
 - *Quantities/materials and costs
 - * How did you arrive at your design.
 - * Use appropriate architectural language

- Guest speaker (planner/housing officer/architect).
- Sketch up software
- Digital mapping/google earth
- Microsoft software.

- Aros Park structure
- Harbour side structure

5. This will contribute to these capacities (tick)

<p>Successful learners use literacy, communication and numeracy skills* use technology for learning* think creativity and independently* learn independently and as part of a group make reasoned evaluations link and apply different kinds of learning in new situations</p> <p>Responsible citizens develop knowledge and understanding of the world and Scotland’s place in it. understand different beliefs and cultures make informed choices and decisions evaluate environmental, scientific and technological issues develop informed, ethical views of complex issues</p>	<p>Confident individuals relate to others and manage themselves pursue a healthy and active lifestyle be self aware develop and communicate their own beliefs and view of the world live as independently as they can assess risk and take informed decisions achieve success in different areas of activity</p> <p>Effective contributors communicate in different ways and in different settings work in partnership and in teams take the initiative and lead apply critical thinking in new contexts create and develop solve problems</p>
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7. Assessment and reporting – description of acceptable performance (Aifl)

Report 60%	Presentation 30%	Attitudes 10%
<ul style="list-style-type: none"> Reflects the clients needs Uses correct technical language Detailed cost analysis Justification of site chosen taking account of; environment and climate Structure of design must be sustainable 	<ul style="list-style-type: none"> Clear and easy to understand Reflects clients needs Shows clear understanding of the following considerations; environment/site/structure/sustainability/cost/materials. Explanation of design process Evaluation of other sites/structures considered. Presentation of map of site and models of structure etc.. 	<ul style="list-style-type: none"> Contributed well to the group Respected the views of others Negotiated well within the group.