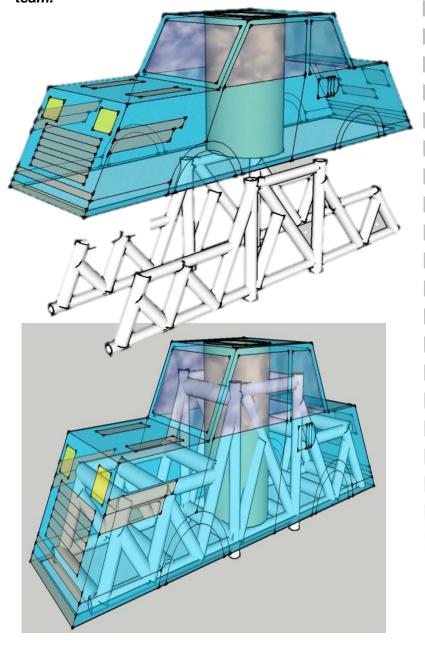
Name / Enw: Form / Dosbarth:

Context

Structures are used for a wide range of things in every day life. In this project you will learn how and why they are used, and using the knowledge you gain you will complete a number of tasks using the methods and techniques used in modern day construction to develop a range of structures that will hold set weights and protect important objects that must not be damaged.

Design Task

You are a car designer working for a firm that specializes in designing rally racing cars. You are to design a car that is able to survive the rigors of rally racing and crash impacts. You also need to design branding and advertising for the exterior of the car. The winning designs will be awarded a lucrative contract to build for the local Toyota race car team.



Learning Objectives / Nodau Dysgu:

- You will understand the risks associated to yourselves and others in a workshop and work accordingly to reduce the risk of accident.
- You will learn how to classify different types of forces and how they act in or upon a structure.
- You will learn how to manufacture two dimensional objects into three dimensional objects.
- You will learn how to test your structure designs and evaluate them to take into account weaknesses in your design and offer suitable alternatives



weaknesses in your design and offer suitable alternatives		
	Design Portfolio	
	Week 1	Structures Research
Project	Week 2	Forces
	Week 3	Car Design
	Week 4	Car Design and Nets Development
	Week 5	Car Structure Manufacture
ָ ב ב	Week 6	Car Structure Manufacture
Structures	Week 7	Car Structure Manufacture
St	Week 8	Car Structure Manufacture and Testing
	Week 9	Evaluation
	Week 10	End of Unit Test

OVERALL SCOL (Showing Characteristics of Level)

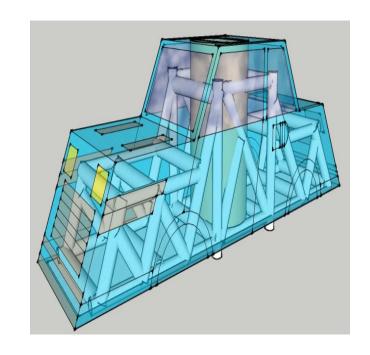
WEEK 1: Structures Research (Ymchwil Adeiledd): :

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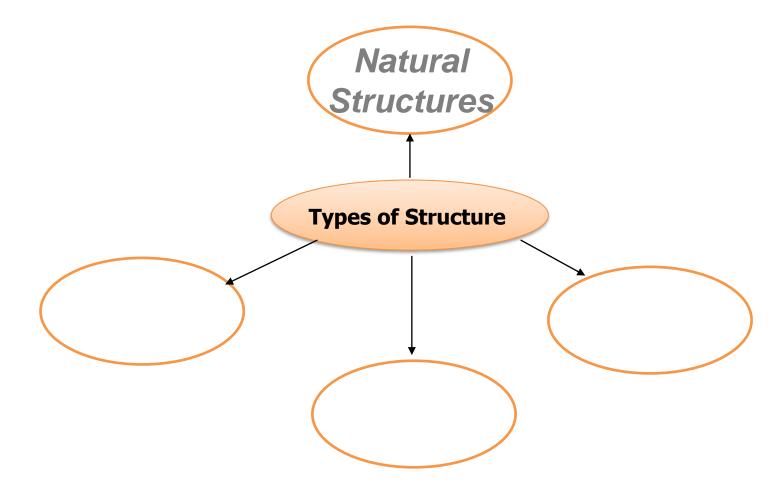
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TASK 1: Structure Classifications

What are the 4 main types of structure classifications. Label and draw an examples of each.......



Lesson Objectives / (Nodau Dysgu)

- Pupils should be able to research and identify past and present structure
- Pupils should be able to research and identify the different classification of structures
- Pupils should be able to correctly place different structures under the correct classification



WEEK 1: Structures Research (Ymchwil Adeiledd): :

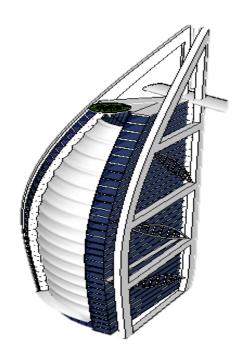
TASK 2: Past and Present Structures

Research and draw some world famous structures from the past and from the present

Past Structures



Present Structures



Lesson Objectives / (Nodau Dysgu)

- Pupils should be able to research and identify past and present structure
- Pupils should be able to research and identify the different classification of structures
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