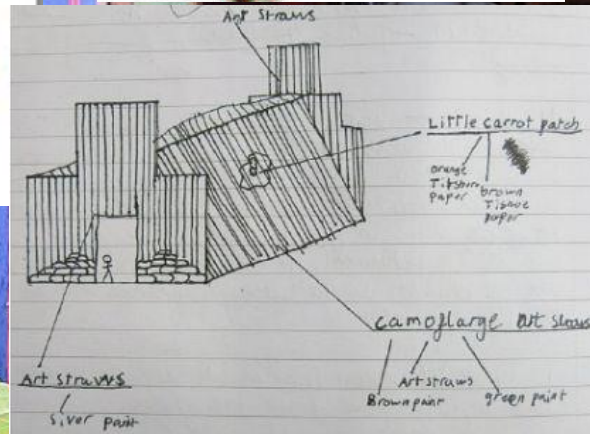
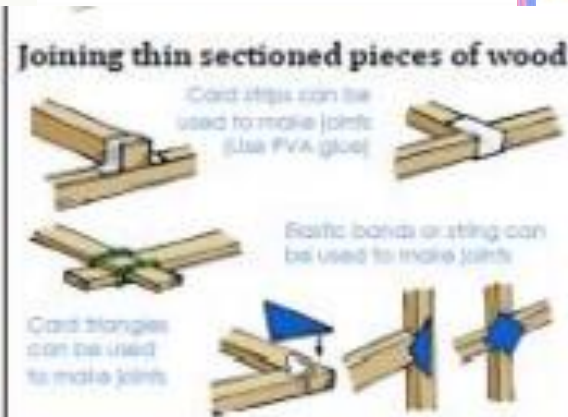
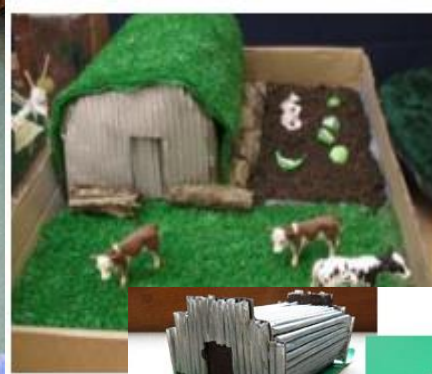


Year 6 - DT Knowledge Organiser - Materials/Structures - Anderson Shelters



- We will learn how to:
- research requirements for design
 - accurately measure, mark-out, cut, assemble, join and shape
 - select materials carefully, considering the intended use of the product, aesthetics and functionality.
 - explain how a product meets design criteria.
 - reinforce and strengthen a 3D frame
 - use selected tools and equipment precisely.
 - Create a prototype.

Design

Make

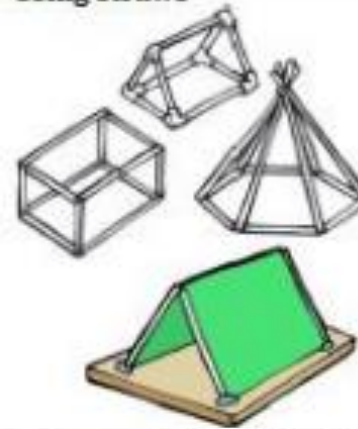
Evaluate

Key Vocabulary

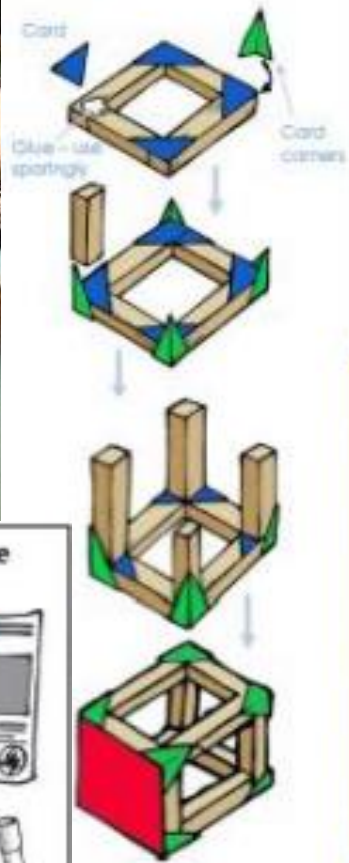
Anderson Shelter	A small and cheap shelter that could be erected in people's gardens, designed in 1938 by William Paterson and Oscar Carl Kerrison.
Compression	The application of pressure to squeeze on an object.
Design	To use existing products to plan, draw and label our own diagrams for what we are going to make.
Design Criteria	A set of targets that an end product must meet to be successful.
Evaluate	To say what was successful and what we could improve in our products.
Functionality	How does a product work - is it fit for purpose?
Prototype	a small model of the finished version out of cheaper materials to check measurements and structural integrity
Tension	A force pulling on a material or structure.

Making small-scale frame structures

Using straws



Using square section wood



Techniques for building frame structures



Joining straws

