

Year 3 DT – Shelters

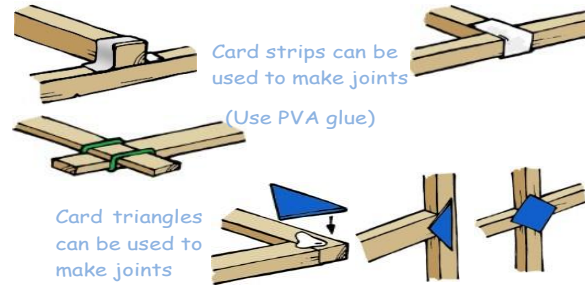
What I should already know:

- To build structures, exploring how they can be made stronger, stiffer and more stable.
- Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]
- explore and evaluate a range of existing products
- Evaluate their ideas and products against design criteria

At the end of this topic, I will know:

- Generate, develop, model and communicate their ideas through discussion, annotated sketches, c and exploded diagrams.
- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures

Joining thin sectioned pieces of wood



Key Facts:

A structure that is stable is less likely to fall over.

How to make a strong, stable and ridged shelter:

- Use a wider base
- Buttress
- Triangulation
- Reinforcement



Vocabulary

Stiffen	Support or strengthen
Framework	An essential supporting structure of a building, vehicle, or object.
Secure	Fixed or fastened so as not to give way, become loose, or be lost.
Reinforce	To strengthen or make something stronger by adding materials.
Protection	The action of protecting, or the state of being protected.
Waterproof	Impervious to water.
Join	Link; connect.
Assemble	Fit together the separate component parts of (a machine or other object).
Construct	Build or make (something, typically a building, road, or machine).
Design	A plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.
Diagram	A simplified drawing showing the appearance, structure, or workings of something.
Evaluate	Form an idea of the amount, number, or value of; assess.
Stable	Not likely to give way or overturn; firmly fixed.