

Year 3 Design technology: Shelters

What should I know already?

- 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

By the end of this unit

- 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



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	Strengthen or support (an object or substance), especially with additional material.
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).
Strengthen	Make or become stronger.
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; a schematic representation
Evaluate	Form an idea of the amount, number, or value of; assess.
Stable	Not likely to give way or overturn; firmly fixed.

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

How to make a strong, stable and ridged shelter

- A wider base
- Buttress
- Triangulation
- Reinforcement

Joining thin sectioned pieces of wood

