

Year 1 D.T: Structures Knowledge Organiser



Star Words ★

Freestanding structure



A building or object which stands up on its own.

Base



The lowest part of a building or object

Joint



The place where two things are joined or fixed together.

Stable

Less likely to fall over

Design

A plan to make something.

Design criteria

What a model must do to

Key Knowledge.

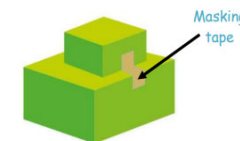
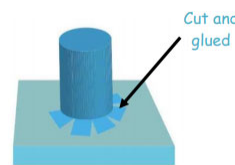
- Structures are more stable when they have a wider base.



- Buttresses can also make a structure more stable. A buttress is something that is built against a structure to make it stable and strong.



- Some materials are stronger and more rigid (stiffer) than others, e.g. card is stronger and more rigid than paper.
- Structures can also be made stronger and more rigid by making sure that parts and materials are properly joined together, e.g. with glue or tape.



- Folding and layering (adding an extra layer) of materials can also strengthen and stiffen structures.