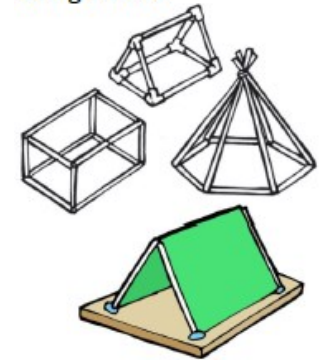


Knowledge Organiser - Frame Structures (Design & Technology Year 5)

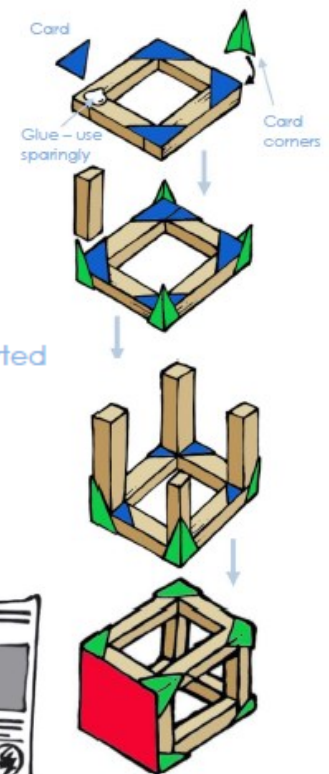
Making small-scale frame structures

Key Vocabulary	Definition
Modelling	The process of making a 3-D representation of a structure or product.
Compression	When pressure squeezes an object.
Strut	A part of a structure that is being compressed.
Tension	A force pulling on a material or structure.
Tie	A part of a structure that is under tension.
Diagonal	A straight line that goes from one corner to another inside a shape.
Horizontal	A line that is parallel to the ground.
Vertical	A line that is at right angles to the ground.
Triangulation	The use of triangular shapes to strengthen a structure.
Frame Structure	A structure made from thin components (such as a tent frame).

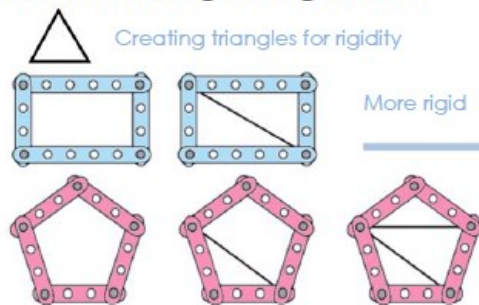
Using straws



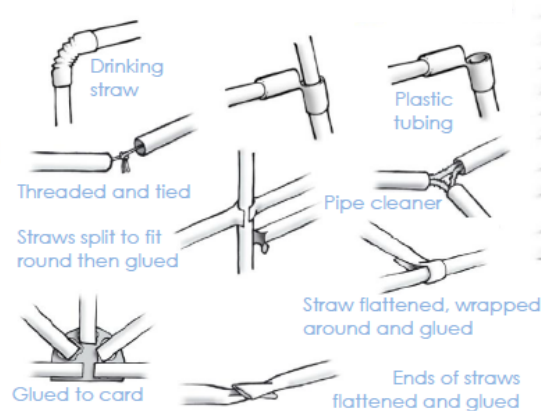
Using square section wood



Understanding triangulation



Joining straws



- One straw creased and inserted
- Flattened and glued
- Pipe cleaner
- Sleeve glued around joint
- Sticky tape

Roll paper to make tubes for construction

