



What should I already know?

- I can measure, mark out, cut, join and finish using a range of techniques with construction materials.
- I know that structures are buildings or other objects constructed from several parts.

DT

Inventors look for problems so that they can plan, design, make and evaluate solutions to make the world better.

Technical vocabulary

frame structure	A structure is made from different parts joined together to make them stable and strong i.e. tent frame, the Eiffel tower.
modelling	the process of making a 3-D representation of a structure or product
compression	the application of pressure to squeeze an object
strut	a part of a structure under compression
tension	a force pulling on a material or structure
tie	a part of a structure 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

Structures

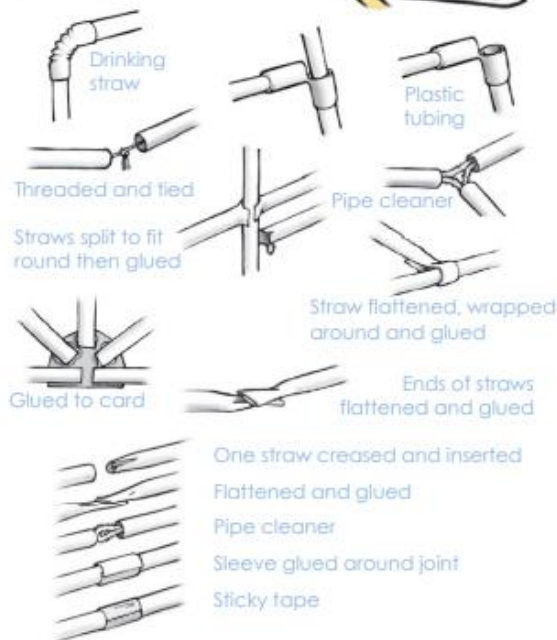
Permanent structures – designed to last a long time
Temporary structures – designed to last a short time

Techniques for building frame structures



Roll paper to make tubes for construction

Joining straws



Investigating



Skills



Designing

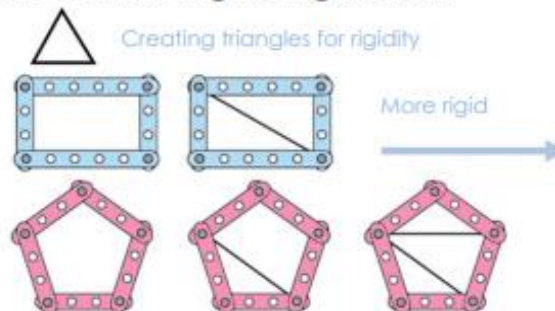


Making



Evaluating

Understanding triangulation



Using straws

