



### 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

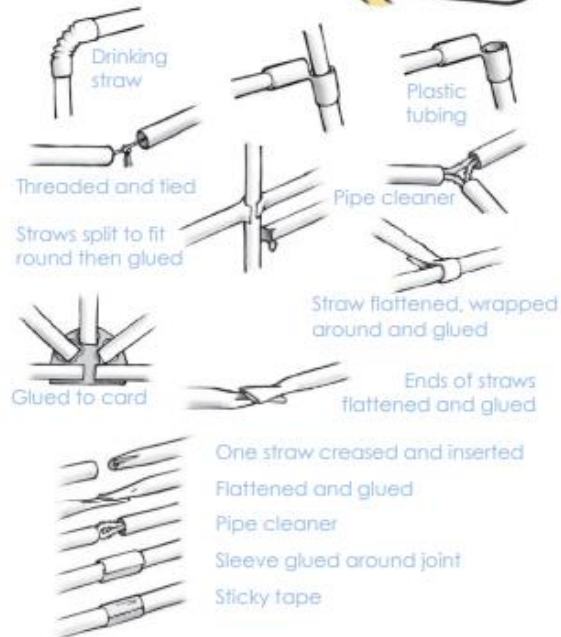
frame structure	A structure is made from different parts joined together to make them stable and strong i.e. tent frame, the Eiffel tower.
modelling	the process of making a 3-D representation of a structure or product
compression	the application of pressure to squeeze an object
strut	a part of a structure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

### Techniques for building frame structures

Roll paper to make tubes for construction



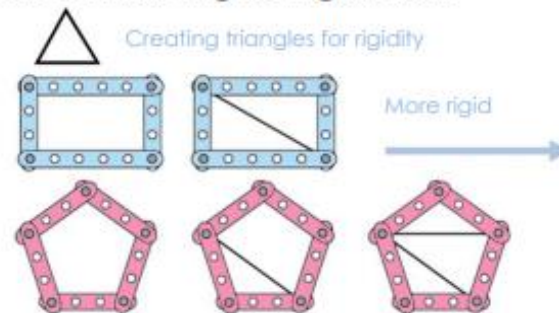
### Joining straws



### Structures

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

### Understanding triangulation



### Using straws

