Design Technology: Y5 Wooden structures (Framed structures)

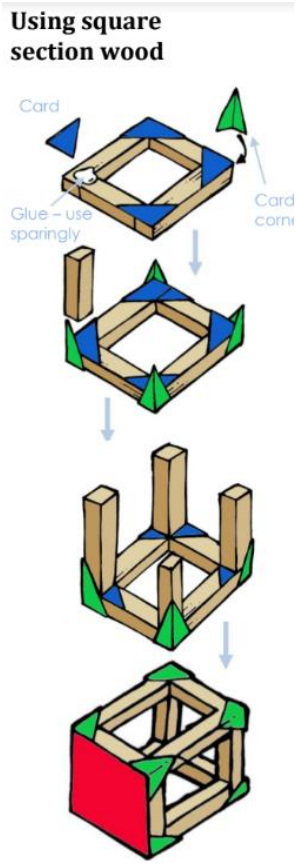
Year 5

Key vocabulary

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
triangulation	the use of triangular shapes to strengthen a structure
frame structure	a structure made from thin components e.g. tent frame

We are building on our knowledge from Year 4 when making agricultural boxes

This will help us learn in Year 6 when making inventions



Key knowledge

Frame structures are able to stand by themselves as a rigid structure. They do not rely on the floor or walls for their strength.

3-D frame structures can be strengthened, stiffened and reinforced.

Wood, paper or straws can be used in modelling to make a rigid frame structure.

Joining materials using triangulation can create rigidity.

