Design Technology: Y4 Agricultural Box- Engineering (Structures)

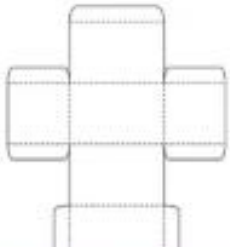
Year 4

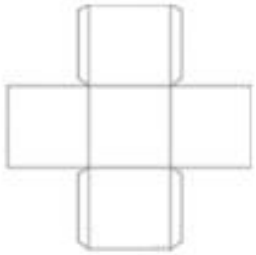
Key vocabulary

CAD	computer-aided design
shell structure	a hollow structure with a thin outer coating
font	a printers' term meaning the style of lettering used
net	the flat or opened-out shape of a 3-D object e.g. a box
aesthetics	the way a product looks with reference to visual appeal
adhesive	a sticky substance or material e.g. glue
iterative process	the practice of designing, building, refining and improving

Key knowledge

Nets for cuboid boxes without a lid will be made of 5 cuboids; with a lid 6 cuboids:





Google Drawings can be used to create nets using shapes drawn and copy on grids.

Corrugated card is stronger because it is thinker and uses fluted paper in a middle layer:



Cardboard and paper can also be strengthened by laminating and overlaying with a layer of plastic or other protective material.

We are building on our knowledge from Year 2 making carriages

This will help us learn in Year 5 when we make hedgehog houses