"Did the Vikings deserve their vicious reputation? (D&T)"

What I can remember

➢ Stone Age Boy (Y3-4)
➢ Big Picture Book Of London (Y1-2)

Big Ws

➢ **Shell structures** have a **solid outer layer**, which can be flat or curved, and a **hollow inside**.

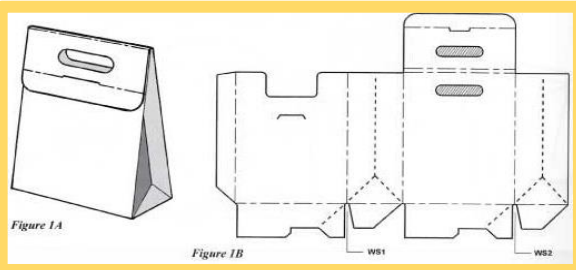➢ Often shell structures are used to **protect**, **contain** or **present** objects.

➢ **Domed shell structures** have a **rounded surface**. This is strong because every part of the structure is **supported**.

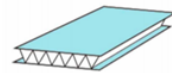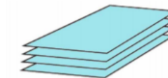St Peter's Basilica (Rome)   The Pantheon   The Dome (Florence)

Figure 1A   Figure 1B   WS1   WS2

Big Ws

➢ **Corrugating**, **ribbing** and **laminating** are different ways of making a structure **stronger** if it is constructed from **card** or **paper**.
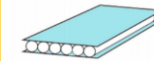
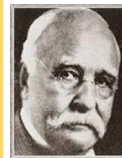| ➢ **corrugating** strengthens a structure by having a zig-zag piece of paper or card between two layers.	**laminating** strengthens a structure by having a several layers glued on top of each other.	**ribbing** strengthens a structure by having a straws between two layers.

Important People
Robert Gair (1839-1927

Robert Gair invented the **folding carton** in **1890**. He was a printer and paper bag maker in the 1870s. He invented the paperboard folding carton **by accident**: a metal ruler used to crease bags shifted position and **cut the bag**.
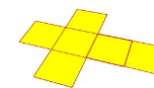
Vocabulary: Structure

flaps
drawn onto nets to join them

net
the flat or opened out shape that is folded and joined to make an object.

scoring
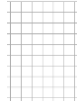cutting a mark into a material to make it easier and more accurate to fold.

Vocabulary: CAD

C.A.D. –computer aided design

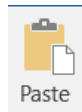**copy** – when you want to have the same image again

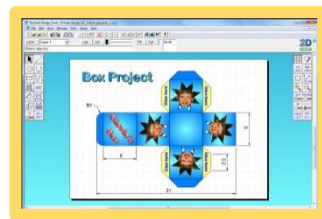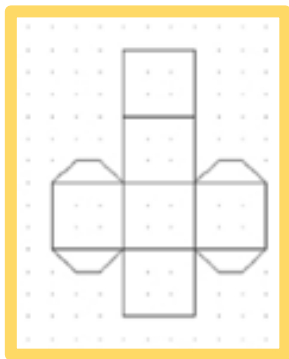**gridlines** - horizontal and vertical lines or rows of dots used to help line up shapes and objects

locking – keeping the object in place so it can't be moved

paste – putting a copied or inserted image or object where you want to place it

software – the package used to complete the task

zoom – make objects bigger or smaller

gridlines

CAD Software

Big Ws

➢ C.A.D is useful when making **packaging**. This is because it **reduces human error** and provides more **accurate designs**. **Changes** and **edits** can also be made much faster.
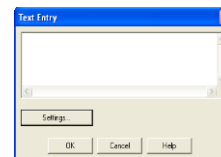
2d Design

Select
Hold down the SHIFT button on the keyboard and click the lines you want.

Shapes
Click to place a corner of a rectangle, then click to place the opposite corner. Click to place the centre of a circle, then the edge.

Lines
Click to place the start and end of the line. For a curved line, click where you want the bends to be.

Dimensions
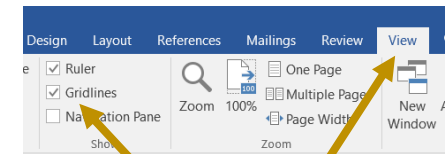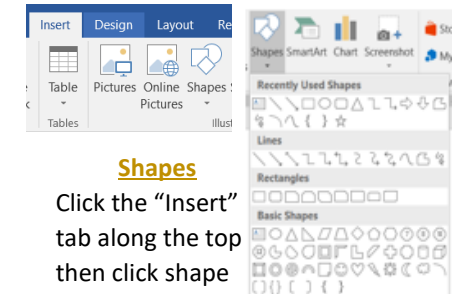Click at the beginning of where you want to measure, and again at the end.

Text
Click to place text. Fonts can be changed by clicking "Settings" in the box.

Delete
Click on a part you want to get rid of then use the DELETE button on the keyboard.

Microsoft Word

Gridlines
Click the "View" tab along the top then click the box next to Gridlines.

Shapes
Click the "Insert" tab along the top then click shape you want to draw. The dots along the edges can be used to change the size.

Click the shape and use the "Format" tab to change the colour.