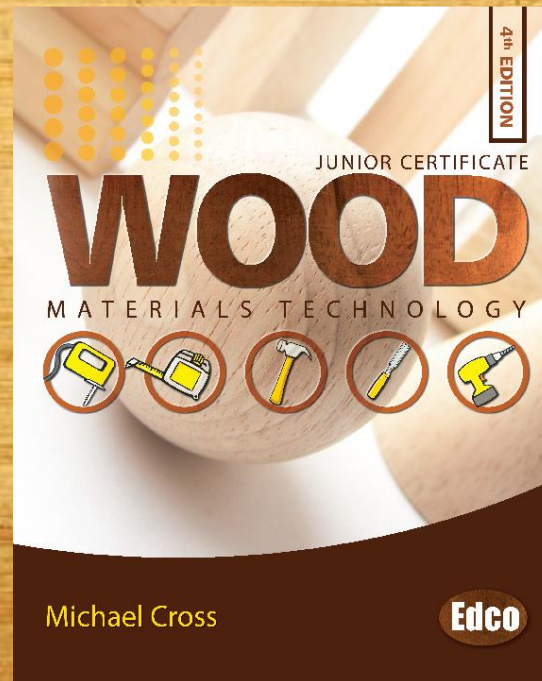


WOOD MATERIALS TECHNOLOGY

4th Edition



Chapter 3

Sketching



Sketches

- Help to explain what an object or idea will look like
- Communicate ideas
- Enhance presentations and reports
- Help to record your work
- Are useful in exams to support answers

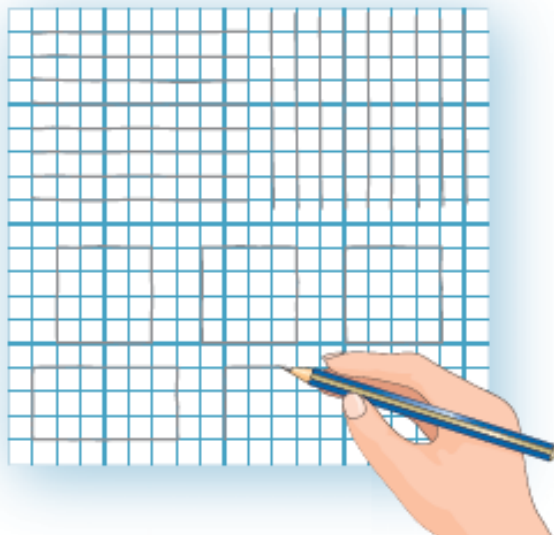
Pencils

- Different types of pencil are used for lighter and darker lines



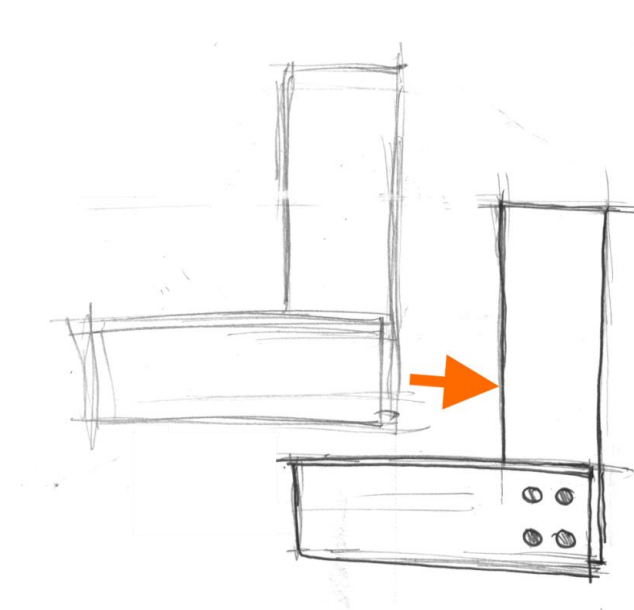
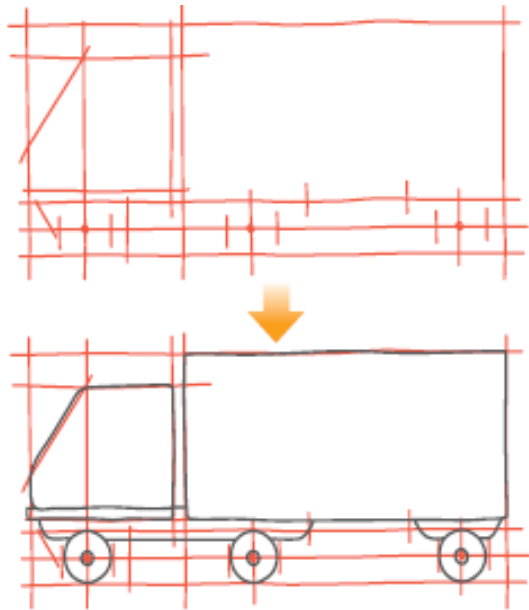
Parallel lines

- To begin, try using squared grid paper to help sketch lines
- Practice drawing horizontal and vertical lines and simple shapes
- Keep parallel lines straight and equidistant to each other
- Move the page around when sketching if it helps



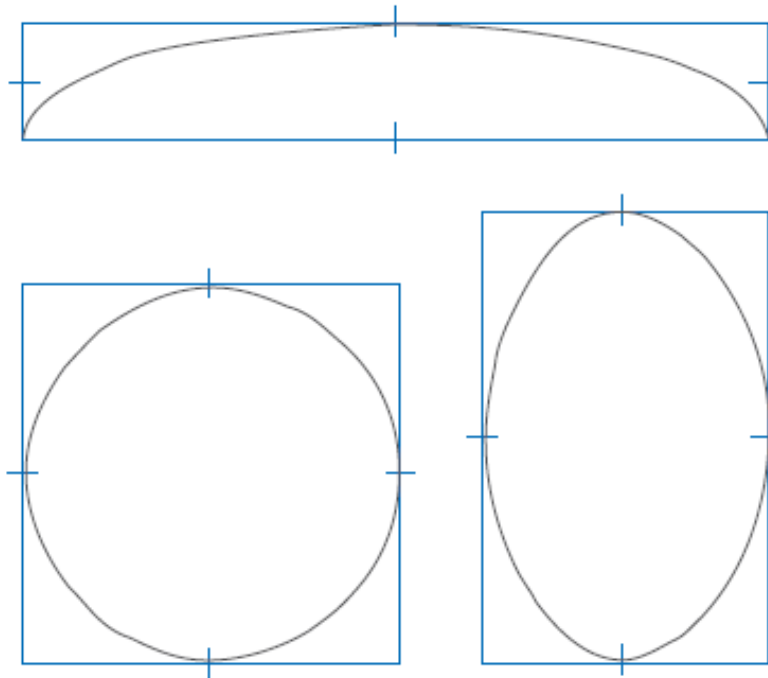
2-dimensional sketching

- Begin with 2 dimensional shapes such as squares and rectangles
- Sketch using light lines first and then use heavier lines to finish your drawing
- Remember – you want a fair sketch, not perfection

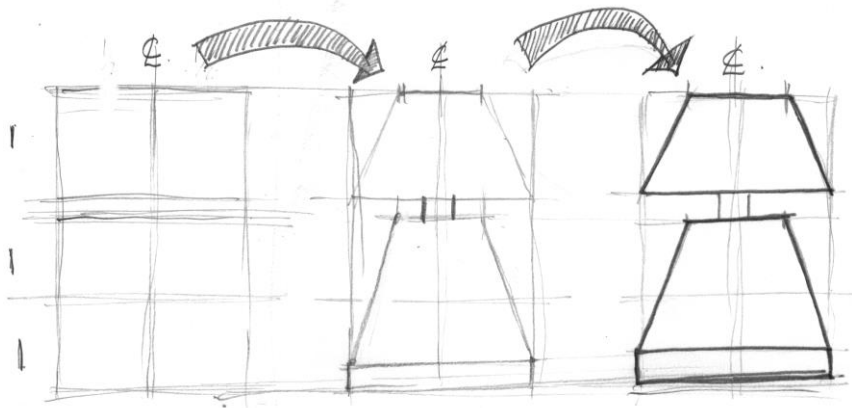


Sketching curves

- Use light crate lines to contain curves, so that you get the proportions right



Examples

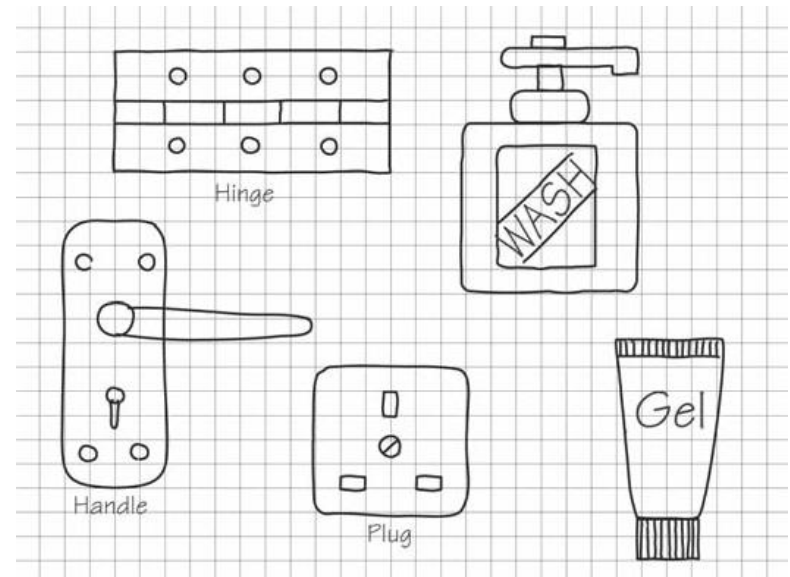


Line in with light lines

Line in the detail lightly

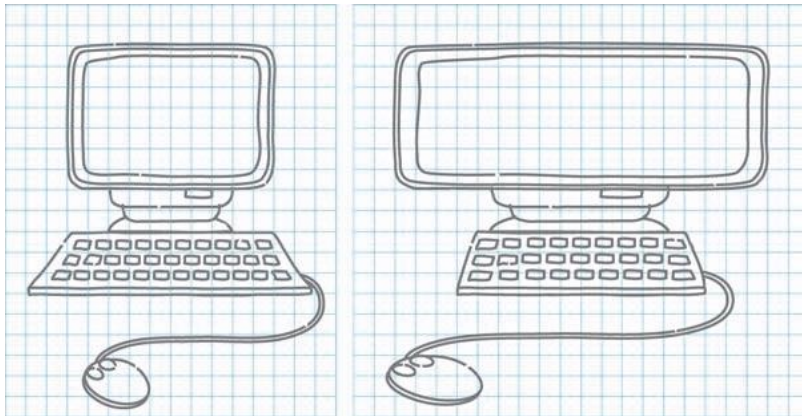
Line in with heavy lines to finish

Try sketching these examples:



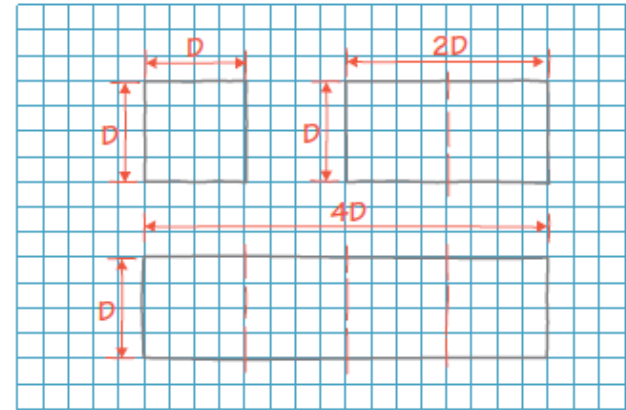
Proportion

- Proportion is the relationship between two measurements
- Be aware of the proportions of the item you are sketching

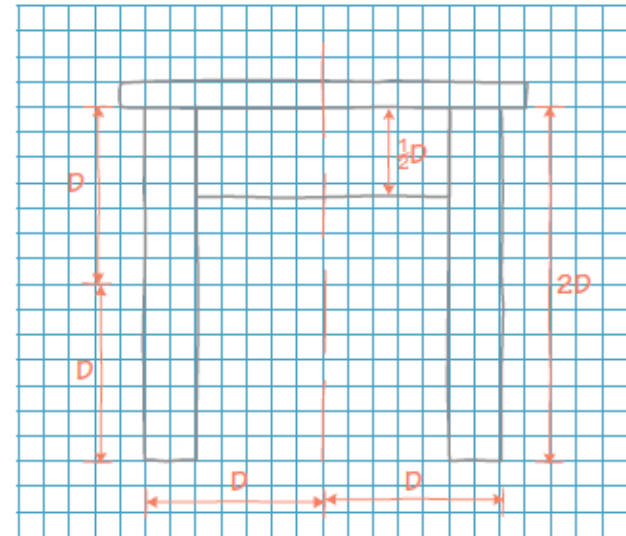


Good
proportion

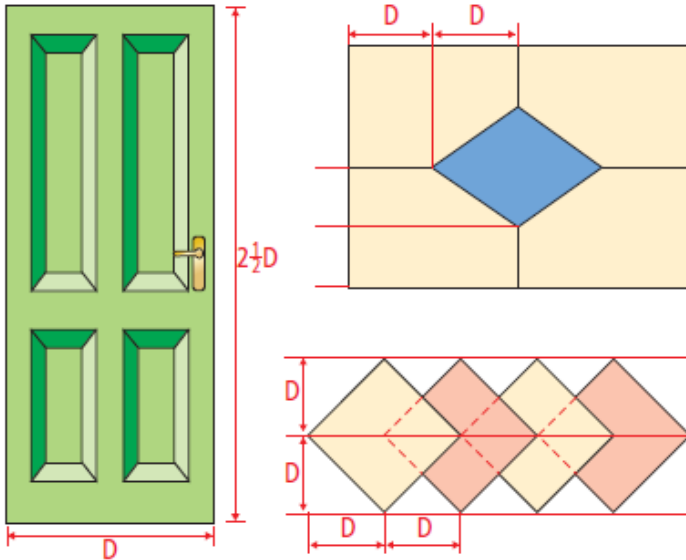
Poor
proportion



Notice the relationship between the height 'D' and the lengths



Proportion



Try sketching these examples:

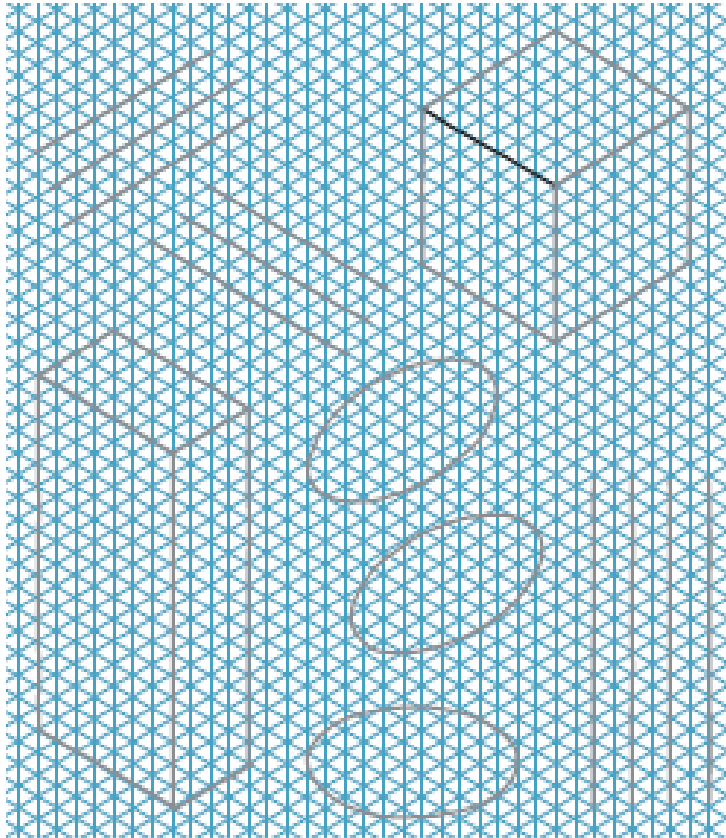


- The height of the door is more than twice its width

Sketch these items in 2D (front view)



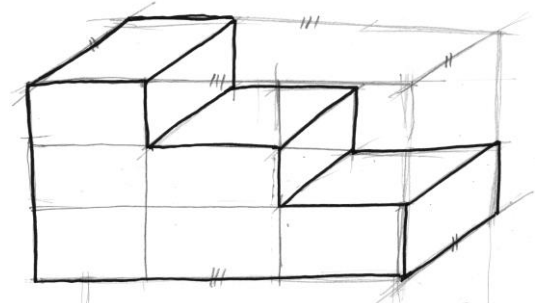
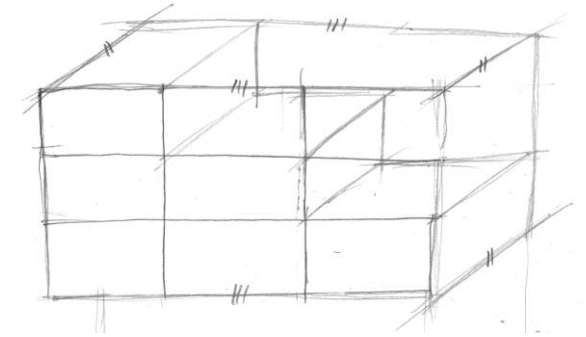
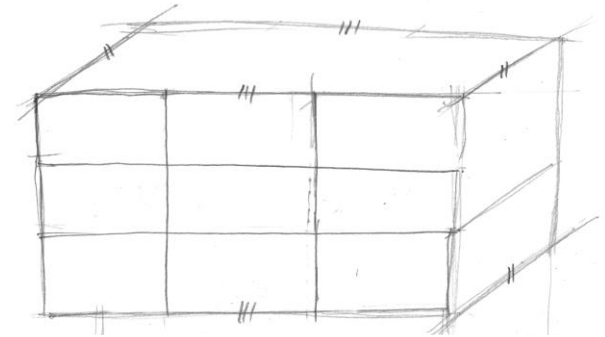
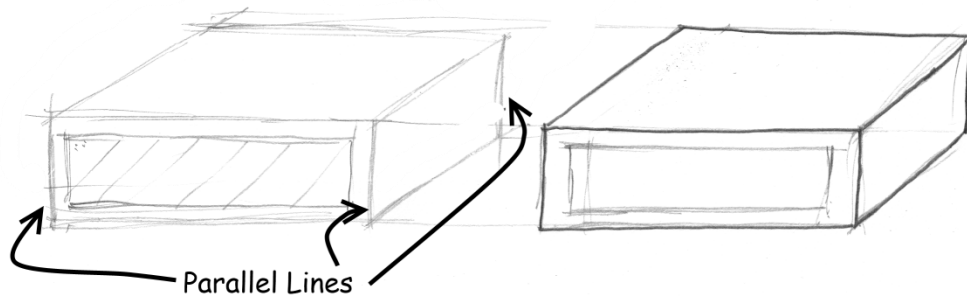
3-dimensional sketching



- Start by using isometric grid paper
- The grid helps you to keep lines parallel

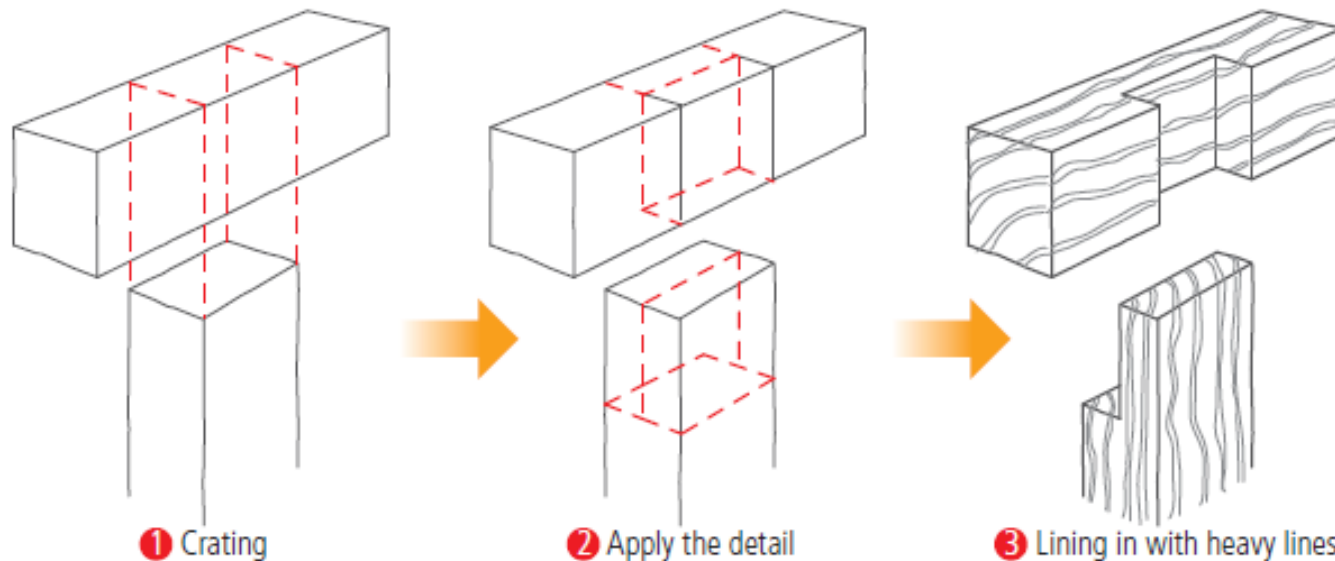
3-dimensional sketching

- Use light lines to get the correct proportions
- Lines that are parallel must remain parallel



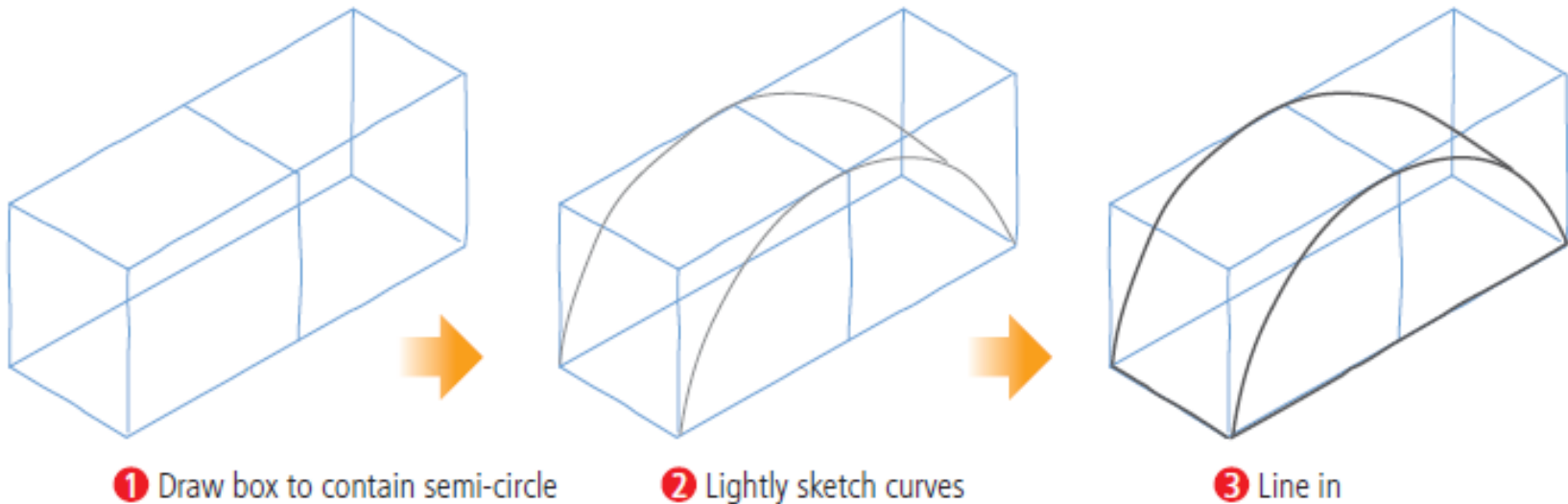
3-dimensional sketching

- 3D sketches can be built up by using light lines to make a crate
- Parallel edges on the object should be sketched as parallel
- The lines and the detail are then drawn in using a heavier line



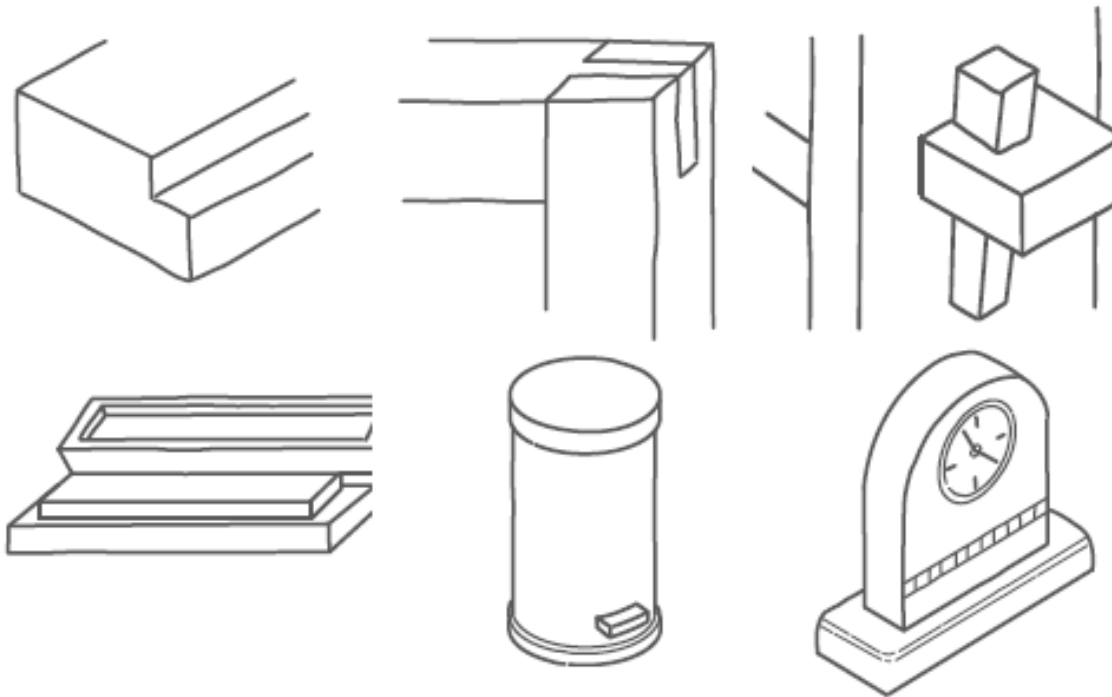
3-dimensional curves

- A lightly drawn box or crate can be helpful when sketching curved objects in 3D



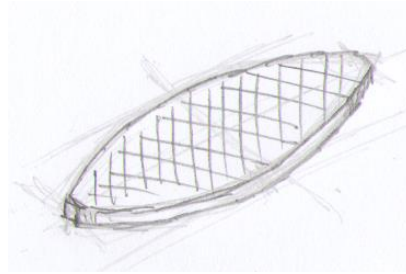
Sketch these objects in 3D

- Practice by sketching familiar objects without the grid paper

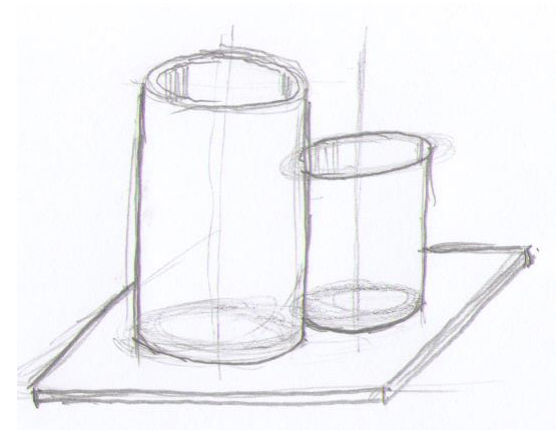


More curves in 3D

- There are many curved objects in the workshop
- Sketch the objects opposite into your copy or sketch book



Biscuit



Pencil holder

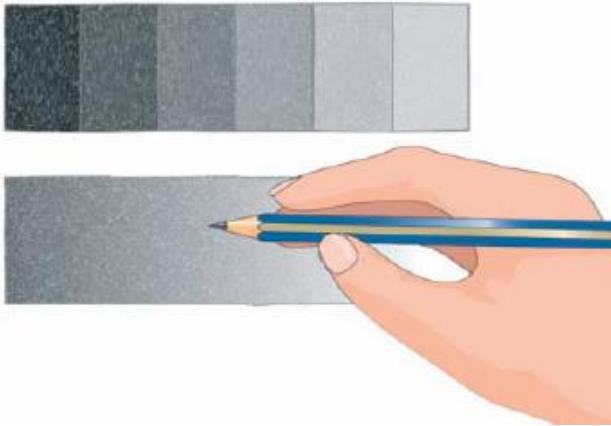


Dowel

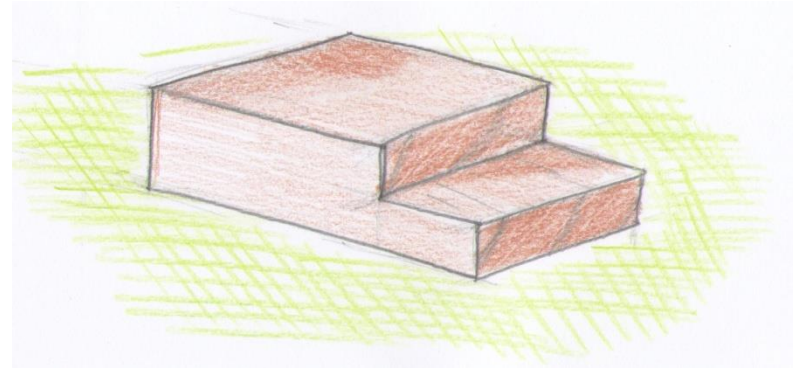
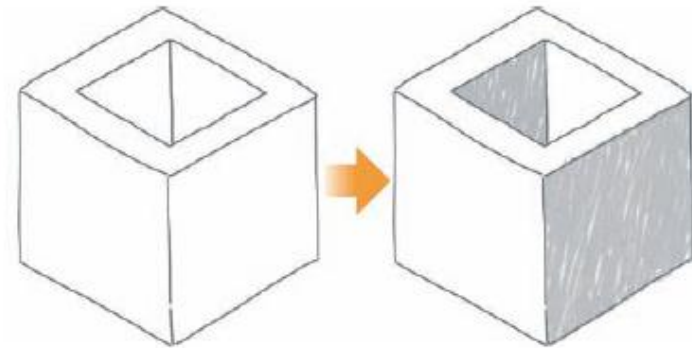


Stock from a gauge

Shading

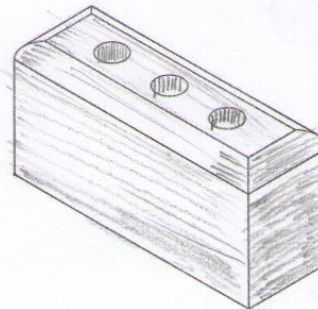


- Enhance sketches and add tone by shading with a pencil
- Regular and coloured pencils are effective for graded shading

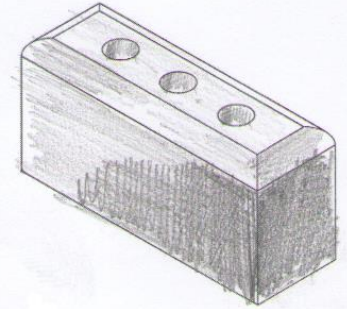


Shading techniques

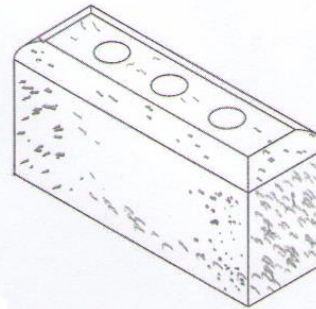
- There are different shading techniques
- The type of shading used can also suggest a texture



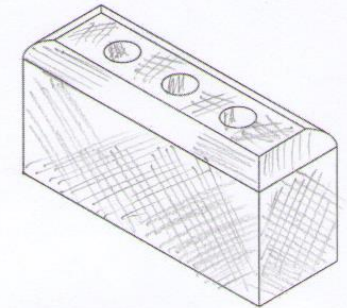
A. Line shading



B. Solid shading



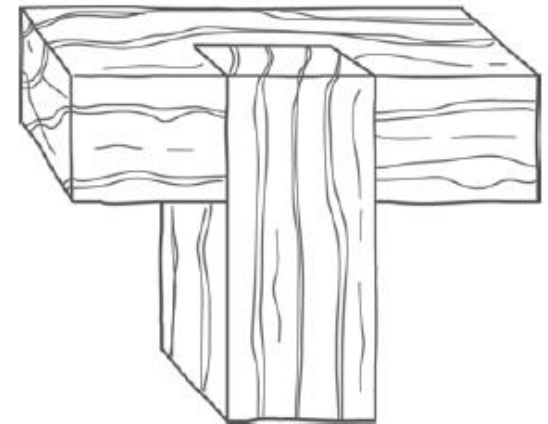
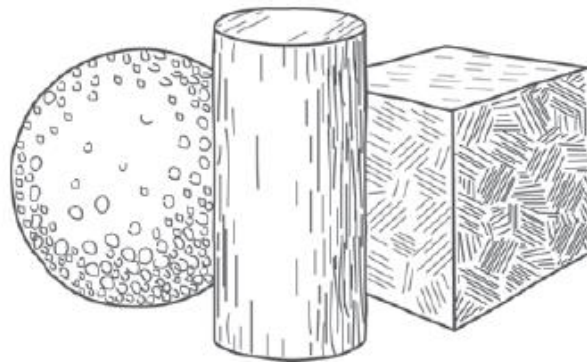
C. Dot shading (pixelating)



D. Hatching and cross hatching

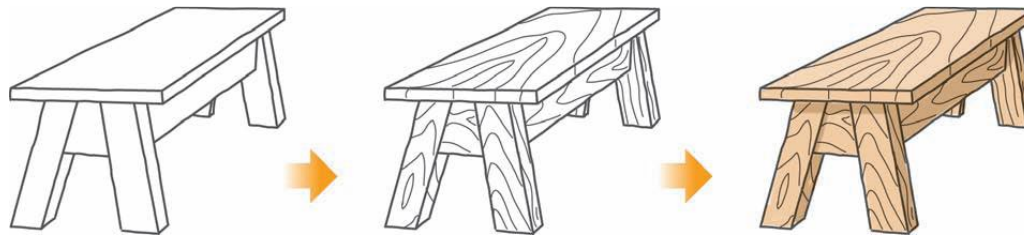
Texture

- Texture describes how different materials look and feel
- Texturing should convey a sense of the material:
 - soft
 - smooth
 - coarse
 - rough
 - shiny

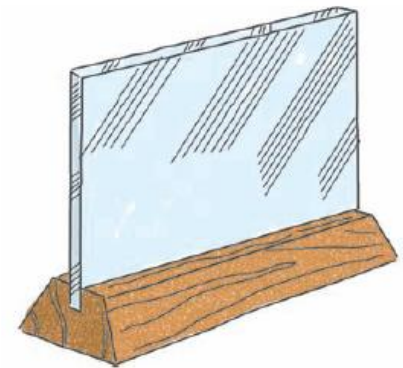
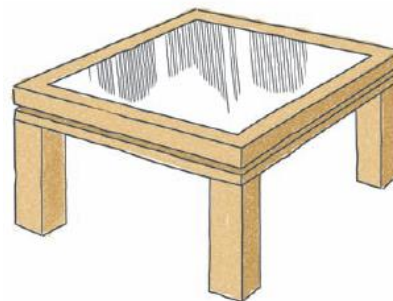


Texture

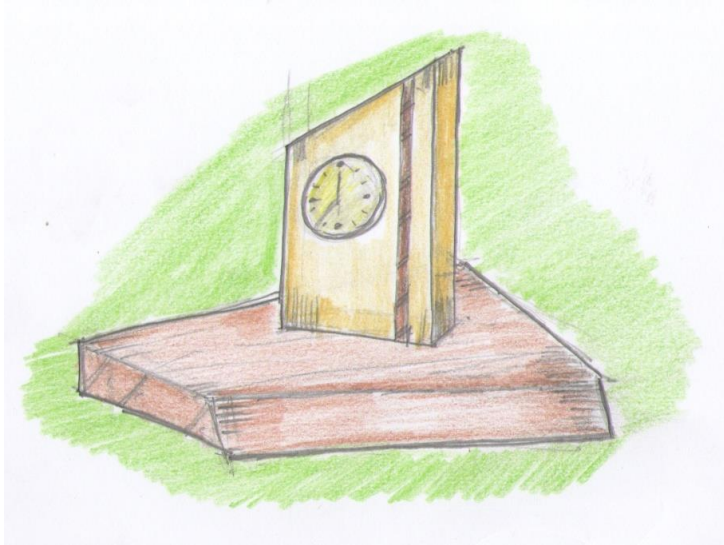
- Adding a grain effect on wood shows the material
- The use of colour will also improve the sketch



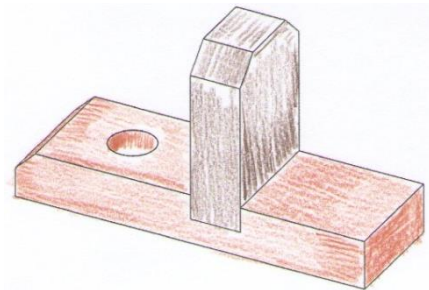
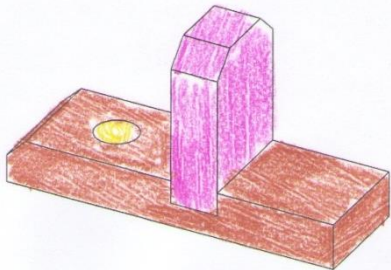
- Vertical or diagonal lines are used to show glass or shiny surfaces



Colour



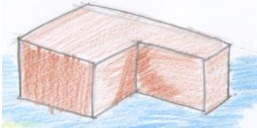
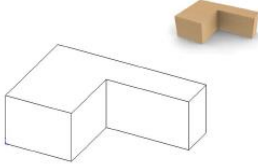
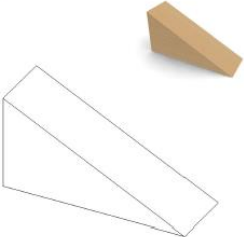
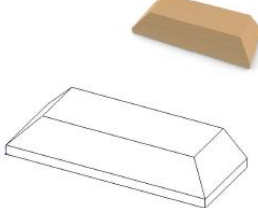
- Colour can bring a sketch alive
- Degrees of shading with coloured pencils will add to the visual appearance of a sketch
- Do not overdo the amount of colours used or the heaviness of the colour



Worksheets

Sketching Worksheet 1

Reproduce the simple line sketches shown into the empty boxes opposite. Add some simple texturing to improve the appearance of the sketches.

1. 	1. 
2.	2. 
3.	3. 

- Use the worksheets to practise your sketching
 - Draw your sketch in the box beside each model sketch
 - Begin by completing the line drawing and then use some simple shading and texturing techniques to enhance the final sketch