



Year 11 Engineering

Types of measuring devices found in a workshop



Tape measure

Used to measure objects of a larger size or distance.



Micrometre

Used to measure smaller objects such as rods or bars, sometimes used with the centre lathe



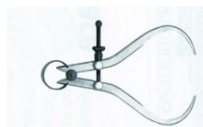
Vernier Calliper

Used to measure small lengths, depths and diameters



Spring Divider Callipers

Used to measure width and length, a ruler/ steel rule is needed with this device.



Outside spring callipers

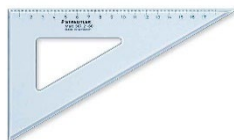
Used to measure length and width around certain shaped objects

Types of measuring devices for drawing



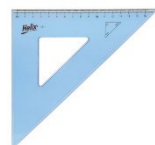
Full-circle protractor

Used to mark and measure angles of lines



30 Degree Set Square

Used to draw 30 degree lines when creating an isometric 3D drawing



45 Degree Set Square

Used to draw 45 degree lines when creating an oblique 3D drawing



Engineers Scale

Measuring distances and transferring measurements at a fixed ratio of length

Metric: mm, cm, m, km

Imperial: Inches, furlong, feet, acres, Miles

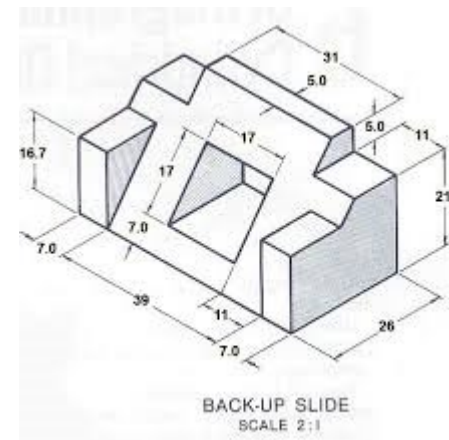
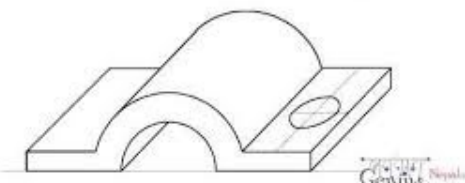
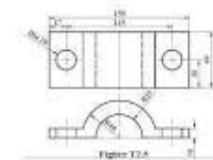
3D Drawing styles:

Isometric

Oblique

2, 3 and 5 point perspective

Oblique

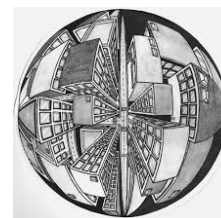


Isometric

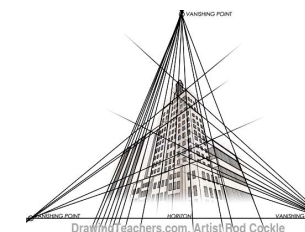


These drawing styles will come up in your Task 3 exam, you must remember them.

5 point perspective



3 point perspective



2 point perspective

