

Drawing Techniques

1. Using a pencil

A good marking out technique is essential for accurate work. It may seem silly but it is even possible to use a pencil incorrectly.

- Keep it sharp! When marking out your accuracy is only as sharp as your pencil. Keep your sharpener handy or have several pencils ready so you don't have to keep stopping.
- When you are drawing around something, or along the edge of a ruler, angle the pencil so that the tip is right up into the corner.
- Don't hold the pencil straight or the conical shape of the sharpened end may hold the tip away from the edge you are trying to draw against.

2. Measuring in - marking in from an edge

1. Place the ruler with the desired number on the edge of the paper or workpiece.
2. Mark the end of the ruler.

3. Measuring Out - marking out from a centreline

1. Place the ruler with the desired number in line with the centreline.
2. Mark the end of the ruler.

4. Drawing a line between two marks

How to join two marks with a straight line:

1. Place the tip of your pencil on one of the marks.
2. Slide the ruler gently up against the tip.
3. Move the pencil to the other mark.
4. Slide the ruler up to the the tip.
5. Check at both ends that the pencil is right on top of each mark then draw the line.

5. Using a drafting square or protractor

1. Place the tip of your pencil on the mark where you want the line to be.
2. Line up the centerline with the 90 degrees line on your protractor or drafting square.
3. Slide it up gently to touch the point of the pencil.
4. Check it is still square to the 90 degrees line, adjust as necessary, and then draw the line across.

6. Tracing the plans

1. **Fix** the tracing paper to the page you would like to trace from with masking tape.
2. **Draw** round the required shape with a pencil. Make sure you get all the lines, including the centreline if there is one. Use a ruler for straight lines and go round the curves carefully by hand.
3. **Remove** the tape.
4. **Place** your tracing pencil side down on a piece of scrap paper.
5. **Draw** over the image so the pencil lines are on both sides.

7. Transferring a traced image

1. **Tape** your tracing into position on the workpiece exactly where you would like it to be.
2. **Draw** over the lines again. As you do this a faint copy of the image will be printed onto your workpiece or drawing.
1. **Double** check that you have gone over all the lines.
2. **Remove** the tape and the tracing.
3. **Redraw** the image. Carefully draw over each line to darken it to make it clearer.