## Plans and Elevations

Plan view is the view from above (birds eye 'view)

An elevation is a view from the front or side.

Do not focus on specifics, it is a flat shape..


## Reflecting Shapes

A reflection is a mirror image. The reflection is exactly the same distance away from the line of reflection as the original image.


## Year 9 Higher Topic 8

## Topic title: Transformations

 and ConstructionsWhat careers would use these skills?

Architecture, planning, aircraft formations, artists and scientists I


## Translating a Shape

A translation is a movement, it doesn't rotate, reflect or enlarge.


## Constructions

You can construct triangles using a pencil, ruler, compass and protractor

To construct a triangle with three sides known

1) Draw the base
2) Set the compass to the length of one side, draw an arc
3) Set the compass to the length of the other side, draw and arc then join the sides up

To construct a triangle with two sides and an angle known.

| 1) | Draw the base |
| :---: | :---: |
| 12) | Measure the angle from one end of |
| I | the line |
| 13) | Set the compass to the length of the |
| 1 | side and draw an arc |
| 14) | Draw the sides |
| 1 |  |
| I |  |
| ${ }_{1}^{1}$ To construct a triangle with two angles and |  |
| , one side known |  |
| , |  |
|  |  |
| 1) | Draw the base |
| 12) | Measure one angle at one end of the |
| I | line |
| 13) | Measure the other angle at the oppo- |
| 1 | site end of the line |
| 1 4) | Join the lines. |
| , $\square$ |  |
| 3-17 |  |
| 1 |  |
| 1 |  |
| I | $\square \times 14$ |

