# Section 2: General equations

## Crucial points

1. **Don't confuse the displacement-time graph of a projectile with its path**
   Remember that the path of a projectile is the route it follows through the air. The path of the projectile is shown by a graph of its vertical displacement against its horizontal displacement. This will look similar to a graph of vertical displacement against time for the projectile because the horizontal component of the projectile's velocity is constant.

2. **Make sure you can find the path equation from the equations for horizontal and vertical displacement in terms of time**
   Make sure that you are confident with the algebra involved – this is a very useful technique throughout maths.