

### **Equations of uniformly accelerated motion**

The equations of uniformly accelerated motion are:

Equation 1:  $v = u + at$

Equation 2:  $s = ut + \frac{1}{2}at^2$

Equation 3:  $v^2 = u^2 + 2as$

Equation 4:  $s = \frac{(v + u)t}{2}$

For many examinations, you will not need to know how to derive these equations - just how to use them. But in order to feel that you understand them, it is important to see where these equations come from. This is explained on the next two pages.