**11E Deriving SUVAT**

1. A particle moves in a straight line with constant acceleration, $a ms^{-2}$. Given that its initial velocity is $u ms^{-1}$ and its initial displacement is 0m, prove that:
2. The particle’s velocity at time $t$ seconds is given by $v=u+at$
3. The particle’s displacement, $s$, at time t is given by $s=ut+\frac{1}{2}at^{2}$