

## Report Sheet

### Uniform and Accelerated Motion

Data:

#### Part 1: Uniform Motion

Time (s)	Distance (cm)

Include a file called *uniform motion.cmb1* showing a graph of distance as a function of time.

Equation of motion,  $d(t)$ , assuming  $d = d_0 + vt$

**Part 2: Accelerated Motion**

Distance (cm) on ramp	Time (s) on ramp	Distance (cm) on level surface	Time (s) on level surface	Speed (m/s) on level surface

Include a file called *acceleration.cmb1* showing graphs of velocity and distance as functions of time.

Equation of motion,  $v(t)$ , assuming  $v = v_0 + at$

Equation of motion,  $d(t)$ , assuming  $d = d_0 + v_0t + \frac{1}{2}at^2$

Value of the constant acceleration from the second plot: \_\_\_\_\_