

Worksheet 2.1.1 – Distances and Timeless Equations (continued)
 (Show all steps – include units and answers with the correct number of significant figures)

1. An object is thrown vertically upwards at a speed of 2.5 m/s from a height of 1.5 m above the ground.

- a. Calculate the maximum height above the ground.

$$v^2 = u^2 + 2as$$

 $0 = 2.5^2 + 2(-9.81)s$
 $0 = 6.25 - 19.62s$
 $19.62s = 6.25$
 $s = \frac{6.25}{19.62}$
 $s = 0.3185$
 $s = 0.32 \text{ m}$

- b. Calculate the time taken to reach the ground.

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

 $1.5 = 2.5t + \frac{1}{2}(-9.81)t^2$
 $1.5 = 2.5t - 4.905t^2$
 $4.905t^2 - 2.5t + 1.5 = 0$
 $t = \frac{2.5 \pm \sqrt{2.5^2 - 4(4.905)(1.5)}}{2(4.905)}$
 $t = \frac{2.5 \pm \sqrt{6.25 - 29.427}}{9.81}$
 $t = \frac{2.5 \pm \sqrt{-23.177}}{9.81}$
 $t = \frac{2.5 \pm 4.814}{9.81}$
 $t = \frac{7.314}{9.81}$
 $t = 0.7456$
 $t = 0.75 \text{ s}$

2. A car starts from rest and accelerates at a constant rate of 2.0 m/s² for 10 s. Calculate the distance travelled.

- a. Calculate the final speed of the car.

$$v = u + at$$

 $v = 0 + 2.0(10)$
 $v = 20 \text{ m/s}$
 $s = ut + \frac{1}{2}at^2$
 $s = 0(10) + \frac{1}{2}(2.0)(10)^2$
 $s = 0 + 100$
 $s = 100 \text{ m}$
 $s = 1.0 \times 10^2 \text{ m}$

- b. Calculate the time taken for the car to reach 100 m.

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

 $100 = 0(t) + \frac{1}{2}(2.0)t^2$
 $100 = t^2$
 $t = \sqrt{100}$
 $t = 10 \text{ s}$

3. A car starts from rest and accelerates at a constant rate of 2.0 m/s² for 10 s. Calculate the distance travelled.

- a. Calculate the final speed of the car.

$$v = u + at$$

 $v = 0 + 2.0(10)$
 $v = 20 \text{ m/s}$
 $s = ut + \frac{1}{2}at^2$
 $s = 0(10) + \frac{1}{2}(2.0)(10)^2$
 $s = 0 + 100$
 $s = 100 \text{ m}$
 $s = 1.0 \times 10^2 \text{ m}$

- b. Calculate the time taken for the car to reach 100 m.

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

 $100 = 0(t) + \frac{1}{2}(2.0)t^2$
 $100 = t^2$
 $t = \sqrt{100}$
 $t = 10 \text{ s}$

4. A car starts from rest and accelerates at a constant rate of 2.0 m/s² for 10 s. Calculate the distance travelled.

$$v = u + at$$

 $v = 0 + 2.0(10)$
 $v = 20 \text{ m/s}$

Find the distance.

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

 $s = 0(10) + \frac{1}{2}(2.0)(10)^2$
 $s = 0 + 100$
 $s = 100 \text{ m}$
 $s = 1.0 \times 10^2 \text{ m}$

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web once all of the material has solidified at the time indicated by point c the cooling will continue at a rate determined by the heat capacities of the two solids a and b the composition and of course the geometry of the experimental set up by measuring cooling curves for samples of varying composition one can map the entire phase

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