

**Worksheet 2.1.1 – Structures and Functions Equations (continued)**  
 (Show all steps – include units and answers with the appropriate number of significant figures)

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

a. Determine the maximum height above the ground.

$$v_f^2 = v_i^2 + 2a\Delta y$$

$$0 = 2.5^2 + 2(-9.8)\Delta y$$

$$\Delta y = 0.157 \text{ m}$$

$$y_{\text{max}} = 1.5 + 0.157 = 1.657 \text{ m}$$
1 mark

b. Determine the time to reach the peak.

$$v_f = v_i + at$$

$$0 = 2.5 + (-9.8)t$$

$$t = 0.255 \text{ s}$$
1 mark

2. A projectile is launched from the ground at an angle of 30° to the horizontal. The projectile is launched at a speed of 10 m/s and reaches a maximum height of 1.5 m.

a. Calculate the time to reach the maximum height.

$$v_{iy} = v_i \sin \theta$$

$$v_{iy} = 10 \sin 30^\circ = 5 \text{ m/s}$$

$$v_{fy} = v_{iy} + at$$

$$0 = 5 + (-9.8)t$$

$$t = 0.51 \text{ s}$$
1 mark

b. Calculate the time to reach the ground.

$$y = v_{iy}t + \frac{1}{2}at^2$$

$$1.5 = 5t - 4.9t^2$$

$$4.9t^2 - 5t + 1.5 = 0$$

$$t = 0.51 \text{ s}$$
1 mark

3. A projectile is launched from the ground at an angle of 45° to the horizontal. The projectile is launched at a speed of 10 m/s and reaches a maximum height of 1.5 m.

a. Calculate the time to reach the maximum height.

$$v_{iy} = v_i \sin \theta$$

$$v_{iy} = 10 \sin 45^\circ = 7.07 \text{ m/s}$$

$$v_{fy} = v_{iy} + at$$

$$0 = 7.07 + (-9.8)t$$

$$t = 0.72 \text{ s}$$
1 mark

b. Calculate the time to reach the ground.

$$y = v_{iy}t + \frac{1}{2}at^2$$

$$1.5 = 7.07t - 4.9t^2$$

$$4.9t^2 - 7.07t + 1.5 = 0$$

$$t = 0.72 \text{ s}$$
1 mark

4. A projectile is launched from the ground at an angle of 30° to the horizontal. The projectile is launched at a speed of 10 m/s and reaches a maximum height of 1.5 m.

$$v_{iy} = 10 \sin 30^\circ = 5 \text{ m/s}$$

$$v_{fy} = v_{iy} + at$$

$$0 = 5 + (-9.8)t$$

$$t = 0.51 \text{ s}$$

Find the time to reach the ground.

$$y = v_{iy}t + \frac{1}{2}at^2$$

$$1.5 = 5t - 4.9t^2$$

$$4.9t^2 - 5t + 1.5 = 0$$

$$t = 0.51 \text{ s}$$
1 mark

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