

Projectile Motion Review Key

1. The acceleration due to gravity acts:
- upward.
 - depending on the motion of the object.
 - downward.**
 - toward outer space.



Since the net force is downward, the resulting acceleration is as well.

2. A bullet is fired at an angle of 45° . Neglecting air resistance, what is the direction of acceleration during the flight of the bullet? Draw a force diagram of the bullet in flight.

- Downward.**
- Dependent on the initial velocity.
- Upward.
- At a 45° angle.



Since the net force is downward, the resulting acceleration is as well.

3. A golfer drives her golf ball from the tee down the fairway in a high arcing shot. When the ball is at the highest point of its flight
- the horizontal velocity is zero and the vertical velocity is zero.
 - the horizontal velocity is zero and the vertical velocity is non-zero.
 - the horizontal velocity is non-zero and the vertical velocity is zero.
 - the horizontal velocity is non-zero and the vertical velocity is non-zero.

Since the only force acting on a projectile is the downward force of gravity, the horizontal net force is zero and therefore the horizontal acceleration is zero. Hence, the horizontal velocity is constant. At the highest point the ball is changing direction and therefore its vertical velocity is instantaneously zero.

4. In the first practicum the ball was shot horizontally. What was the initial vertical velocity (\vec{v}_{y_i}) of the ball when it was shot?

- 0 m/s
- 8 m/s
- 6.6 m/s
- 0 m/s**

The initial velocity is completely horizontal.

5. A soccer ball is kicked at a 55° angle with an initial velocity of 8 m/s . What is the vertical velocity of the ball as it hits the ground?

- 8 m/s
- -8 m/s
- -6.6 m/s**
- 6.6 m/s



$$\begin{aligned} \vec{v}_y &= v_i \sin 55 \\ \vec{v}_y &= (8 \text{ m/s}) \sin 55 \\ \vec{v}_y &= 6.6 \text{ m/s} \end{aligned}$$

Since the completely parabolic path is symmetric

$$\vec{v}_y = -\vec{v}_y = -6.6 \text{ m/s}$$

6. Approximately how far will an object near Earth's surface fall in 3.0 s ?

- 44 m**
- 29 m
- 9.8 m
- 88 m

$$\begin{aligned} \vec{y} - \vec{y}_i &= ? \\ t &= 3.0 \text{ s} \\ \vec{v}_i &= 0 \text{ m/s} \\ \vec{g} &= -9.8 \text{ m/s}^2 \end{aligned}$$

$$\vec{y} - \vec{y}_i = \vec{v}_i t + \frac{1}{2} \vec{g} t^2$$

$$\vec{y} - \vec{y}_i = \frac{1}{2} \vec{g} t^2$$

$$\vec{y} - \vec{y}_i = \frac{1}{2} (-9.8 \text{ m/s}^2) (3.0 \text{ s})^2$$

$$\vec{y} - \vec{y}_i = -44 \text{ m}$$

Answer Key To Projectile Motion Sim

Michael Seilmaier



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