

PROJECTILE MOTION

Projectile Motion



- **Projectile motion** is the motion of an object while it's only being affected by gravity and no other forces. An object is only in projectile motion while in the air, not when it's touching the ground or other objects.
- Also referred to as "free fall" (although "free fall" may only refer to 1D projectile motion).
- The vertical acceleration is the acceleration due to gravity, $g = 9.8 \text{ m/s}^2$, which always acts downwards.
- There is no horizontal acceleration so the horizontal velocity is constant.
- The object in projectile motion is called a **projectile** and the path is called the **trajectory**.

Initial Velocity Vector



$$\cos(\theta) = \frac{v_{xi}}{v_i}$$

$$v_{xi} = v_i \cos(\theta)$$

$$\sin(\theta) = \frac{v_{yi}}{v_i}$$

$$v_{yi} = v_i \sin(\theta)$$

*cos and sin are reversed if the other angle is used

Example:



$$v_{xi} = v_i \cos(\theta)$$

$$v_{xi} = (5 \text{ m/s}) \cos(60^\circ)$$

$$v_{xi} = 2.5 \text{ m/s}$$

$$v_{yi} = v_i \sin(\theta)$$

$$v_{yi} = (5 \text{ m/s}) \sin(60^\circ)$$

$$v_{yi} = 4.3 \text{ m/s}$$

- The components of the initial velocity vector are the initial horizontal velocity and the initial vertical velocity.
- The angle is usually between the vector and the horizontal component but double check which angle is given before using the trig functions (cosine for the adjacent component and sine for the opposite component).
- If the vector is vertical or horizontal then the parallel component is equal to the vector (and the other is zero).
- The initial horizontal velocity will be the horizontal velocity for the entire motion.
- The initial vertical velocity can be used with the vertical motion kinematic equations.

Guide Projectile Motion

Scott C. Dulebohn

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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