

# PHYSICS 1

## STUDY GUIDE:

# PROJECTILE MOTION

STUDY GUIDE

PROJECTILE MOTION

Projectile Motion

Diagram illustrating projectile motion. A projectile is launched from a cannon, follows a parabolic trajectory, and lands on the ground. The acceleration due to gravity is  $g = 9.8 \text{ m/s}^2$ . The path is labeled "trajectory". A vertical dashed line shows the object's path if it were dropped straight down.

- 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

Diagram illustrating the initial velocity vector  $v_i$  and its components. The horizontal component is  $v_x$  and the vertical component is  $v_y$ . The diagram shows three cases: horizontal launch ( $v_y = 0 \text{ m/s}$ ), vertical launch ( $v_x = 0 \text{ m/s}$ ), and angled launch (both  $v_x$  and  $v_y$  non-zero).

# Answer Key Physics Study Guide Projectile Motion

**John D. Cutnell, Kenneth W. Johnson**



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