

Introduction:

Projectiles travel with two components of motion, X and Y. The acceleration and velocity in the Y direction is independent of the acceleration (if any) and velocity in the X direction. In this module, you will investigate the motion of a simple projectile. Realize that while gravity (acceleration) acts on the projectile in the vertical direction, it does not affect the velocity of the projectile in the horizontal direction.



Projectile Motion

Procedure:

- Run the PhET Simulation (<https://phet.colorado.edu/en/simulation/legacy/projectile-motion>)
- The cannon can be moved to add or remove initial Y position and X position.
- The cannon can be pivoted to change the firing angle, θ .
- The tape measure can be moved and dragged to measure range to target.
- To fire the cannon, **Fire**.
- To erase the projectile's path, **Erase**.

Be sure air resistance is off and spend some time firing various projectiles.

- Set the initial speed to a value between 10-15 m/s. Choose your favorite projectile.
- Find the range of the projectile at various angles.

$$\theta = 30^\circ: \text{Range } (\Delta x) = \underline{12.7} \text{ m}$$

$$\theta = 40^\circ: \text{Range } (\Delta x) = \underline{14.2} \text{ m}$$

$$\theta = 50^\circ: \text{Range } (\Delta x) = \underline{14.6} \text{ m}$$

$$\theta = 60^\circ: \text{Range } (\Delta x) = \underline{12.7} \text{ m}$$

Add two more $\rightarrow$

$$\theta = 70^\circ: \text{Range } (\Delta x) = \underline{9.44} \text{ m}$$

$$\theta = 80^\circ: \text{Range } (\Delta x) = \underline{5.01} \text{ m}$$

$$\theta = \underline{10}^\circ: \text{Range } (\Delta x) = \underline{5.01} \text{ m}$$

$$\theta = \underline{45}^\circ: \text{Range } (\Delta x) = \underline{14.8} \text{ m}$$

- Measure the distance from the cannon to the target using the tape measure.
- Move the target to 21.0 m from the cannon. Attempt to hit the target with three different angles by changing the firing angle and initial velocity.

$$\text{Range } (\Delta x) = 21.0 \text{ m} \quad \theta = \underline{80^\circ} \quad v_i = \underline{25 \text{ m/s}}$$

$$\text{Range } (\Delta x) = 21.0 \text{ m} \quad \theta = \underline{60^\circ} \quad v_i = \underline{15 \text{ m/s}}$$

$$\text{Range } (\Delta x) = 21.0 \text{ m} \quad \theta = \underline{30^\circ} \quad v_i = \underline{15 \text{ m/s}}$$

**VERY IMPORTANT**

- ❖ A projectile's velocity (v) has an x-component (v_x) and a y-component (v_y). The x-component (v_x) is found by multiplying the magnitude of the velocity by the *cosine* of the angle, θ .
- ❖ Similarly, the y-component of velocity is found by multiplying the magnitude of the velocity by the *sine* of the angle, θ .

$$v_x = v \cos \theta$$

$$v_y = v \sin \theta$$

So, a projectile fired at 20 m/s at 65° has an x-velocity of $v_x = 20 \cos 65$ or 8.5 m/s.

The projectile would have a y-velocity of $v_y = 20 \sin 65$ or 18 m/s.

So, the projectile would fire as far as one fired horizontally at 8.5 m/s and as high as one fired straight up at 18 m/s.

A projectile fired at 30 degrees with a velocity of 15 m/s would have an x-velocity component of 13 m/s and a y-velocity component of 7.5 m/s.

Answer Key To Projectile Motion Sim

M Mark



Answer Key To Projectile Motion Sim:

Answer Key To Projectile Motion Sim Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Answer Key To Projectile Motion Sim**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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