#### Introduction:

Projectiles travel with two components of motion, X any 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 \_\_ver\_tra\_\_\_\_ direction, it does not affect the velocity of the projectile in the \_\_ver\_tra\_\_\_\_ 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.

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.

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

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

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

$$\theta = 10$$
 Range  $(\Delta x) = 5.01$  m

- θ = 45 Range (Δx) = 14.8 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.

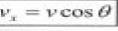
Range  $(\Delta x) = 21.0m$ 





#### VERY IMPORTANT

- A projectile's velocity (v) has an x-component (v<sub>x</sub>) and a y-component (v<sub>y</sub>). The x-component (v<sub>x</sub>) is found by multiplying the magnitude of the velocity by the cosine of the angle, θ.
- Similarity, the y-component of velocity is found by multiplying the magnitude of the velocity by the sine of the angle, θ.



$$v_y = v \sin \theta$$

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

The projectile would have a y-velocity of  $v_x = 20 \sin 65$  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 \_\_\_\_\_\_\_\_ m/s.

# **Answer Key To Projectile Simulation Lab Activity**

United States. Environmental Protection Agency

#### **Answer Key To Projectile Simulation Lab Activity:**

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\* ,2004 Scientific and Technical Aerospace Reports ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database Department of Defense Appropriations United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense,2003 Department of Homeland Security Appropriations for 2010 United States. Congress. House. Committee on Appropriations. Subcommittee on Homeland Security,2009

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### Answer Key To Projectile Simulation Lab Activity Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "Answer Key To Projectile Simulation Lab Activity," published 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 shall 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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