

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

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

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

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

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

- 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.

$$\text{Range } (\Delta x) = 21.0\text{m} \quad \theta = \underline{30^\circ} \quad v_i = \underline{25 \text{ m/s}}$$

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

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

**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.

Projectile Motion Phet Simulations Lab Answers

JS Bruner



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Three-Dimensional Simulations of Normal Impact of Projectiles on Moving Targets ,1993 Three dimensional simulations of normal impact of 38 16 mm long steel cylinders of L D 6 on thin 1 59 mm aluminum plates which are themselves in motion have been conducted using the HULL code on Cray supercomputers HULL is an Eulerian code that uses a finite difference scheme to solve partial differential equations of continuum mechanics An elastic perfectly plastic model was used to describe the strain response of the target and the projectile Simulations for projectile velocities of 219 m/s and 876 m/s with die plates moving laterally edge on at 40 m/s and 160 m/s respectively are compared with cases when the

plates are stationary The transverse plate motion perpendicular to the projectile results in a time dependent alteration of projectile motion and produces a tearing of the plate in addition to the plugging that would occur if the plate were stationary The results of the simulations are presented as graphic time histories of the physical quantities including sum waves in rod plate interaction These results show that if an armor plate is set in relative transverse motion with respect to an incidental projectile it acquires a greater protection capability than the corresponding stationary plate This has implications for armor applications for live fire testing and for vulnerability and lethality analyses

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