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.

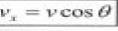
Range $(\Delta x) = 21.0m$





VERY IMPORTANT

- A projectile's velocity (v) has an x-component (v_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.
- 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. Congress. House.
Committee on Appropriations.
Subcommittee on Department of Defense

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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 Resources in Education ,1998 107-2 Hearings: Department of Defense Appropriations For Information Database 2003, Part 2, June 5, 2002, *, 2004 Department of Defense Appropriations United States, Congress, House, Committee on Appropriations. Subcommittee on Department of Defense, 2003 Technical Abstract Bulletin ,1981 Government Reports Announcements & Index ,1993 EPA Publications Bibliography United States. Environmental Protection EPA Publications Bibliography Ouarterly Abstract Bulletin United States. Environmental Protection Agency, 1999 Computer Simulation, 1951-1976 Per A. Holst, 1979 **Department of Defense Appropriations for** Agency, 1999-07 2003 United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense, 2004 **International Aerospace Abstracts** ,1996 Energy Research Abstracts ,1995 Department of Homeland Security Appropriations for 2010 United States. Congress. House. Committee on Appropriations. Subcommittee on Homeland Security, 2009 Department of Homeland Security Appropriations for 2010, Part 2, 2009, 111-1 Hearings, *,2009 Aerospace America ,2001 **Cumulated Index Medicus** ,2000 **Educational Resources for Microcomputers** .1986 Department of Defense Authorization for Appropriations for Fiscal Year 2005 United States. Congress. Senate. Committee on Armed Services, 2005 INIS Atomindex ,1988 American Journal of Physics, 1999

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