

PhET Projectile Motion Differentiated Lab

Tier I = 1-9 and 14

Tier II = 1-4, 7-11 and 14

Tier III = 1-4, 10-14

Directions: Google "PhET Projectile", it will be the first hit

(if you NEED a URL, it's <http://phet.colorado.edu/en/simulation/projectile-motion>)

Then click the **Run Now!** button beneath the picture. Take a few minutes to familiarize yourself with the simulation and shoot stuff with the cannon. Once you've somewhat satisfied your primal desires to shoot things, follow along with the questions below.



1. Look at the "height" box at the top. What kinematics term does it actually stand for?
2. What point is it relative to? (hint: shoot the cannon once and watch the number closely). Explain your reasoning.
3. On the PhET program, what is the horizontal displacement called?
4. Pick any initial speed and launch angle, and try out firing all the different objects (golfball -> Buick). How does the mass of an object affect its motion through the air?
5. Fire the projectile launcher straight upwards (angle = 90°) at 18 m/s (*throw up*). Using kinematics:
 - a) Determine the horizontal and vertical components. Show your equations table
 - b) the time it should take the projectile to reach maximum height
 - c) the maximum height reached by the projectile
 - d) Now, using the measuring tape, measure the actual height reached by the projectile (remember to measure from the little plus sign at the base of the cannon). Was your answer to (b) the same as this measurement? If it wasn't, check your math over and find your mistake.
6. Drag the cannon up to a height of around 13m. (Use the tape measure to set the cannon height!) Fire the projectile launcher straight upwards (angle = 90°) at 18 m/s. (*elevated throw up*). Using kinematics:
 - a) Determine the horizontal and vertical components. Show your equations table

Projectile Motion Phet Simulations Lab Answers

JS Bruner



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