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Homer L. Dodge Department
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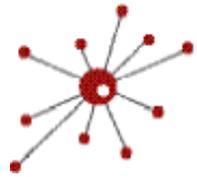
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PhET Simulation: Projectile Motion

published by the Physics Education Technology Project

This webpage contains a simulation that allows the user to fire various objects out of a cannon. By manipulating angle, initial speed, mass, and air resistance, concepts of projectile motion are illustrated. This page also contains user-submitted suggestions of ideas and activities for this simulation.

This item is part of a larger collection of simulations developed by the Physics Education Technology project (PhET). The simulations are animated, interactive, and game-like environments in which students learn through exploration. All of the simulations are freely available from the PhET web site for incorporation into classes.

<http://phet.colorado.edu/en/simulation/projectile-motion>

Subjects	Levels	Resource Types
Classical Mechanics - Applications of Newton's Laws - Motion in Two Dimensions = Projectile Motion	- Lower Undergraduate - High School - Middle School	- Instructional Material = Activity = Interactive Simulation
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<http://www.pbs.org/opb/circus/classroom/circus-physics/angular-momentum/>
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<http://canu.ucalgary.ca/map/content/force/newton3/momentum/applet.html>
- 4. The Physics Classroom: Car and Truck in Head-on Collision, Inelastic Collision** [A]
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 This web page features an animated image and a discussion of momentum conservation. The animated gif shows an inelastic head-on collision between a car and a truck, with information...
<http://www.physicsclassroom.com/mmedia/momentum/cthoi.cfm>
- 5. Two Particle Elastic Collision Model** [Computer Program] [A]
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 The EJS Elastic Collision Model allows the user to simulate a two-dimensional elastic collision between hard disks. The user can modify the mass, position and velocity of each disk...
<http://www.compadre.org/psrc/document/ServeFile.cfm?ID=8373&DocID=921>
- 6. Matter & Interactions Practice Problems: Interactions and Motion** [A]
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 These web pages contain problems to supplement the introductory textbook, Matter and Interactions by Ruth Chabay and Bruce Sherwood. These problems are for Volume 1, Chapter 1 on...

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<http://www.falstad.com/emstatic/>

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CWSEI: Clicker Resources
sub author: Stephanie V. Chasteen and Carl E. Wieman
published by the Carl Wieman Science Education Initiative and the Science Education Initiative

This resource website on effective use of personal response systems or "clickers" contains many helpful links, including quality clicker question banks, articles, an instructor resource guide, handouts for workshops, and links to videos.

These resources part of the education and professional development work of the Science Education Initiative at the University of Colorado and the Carl Wieman Science Education Initiative at the University of British Columbia.

<http://www.cwsei.ubc.ca/resources/clickers.htm>

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