

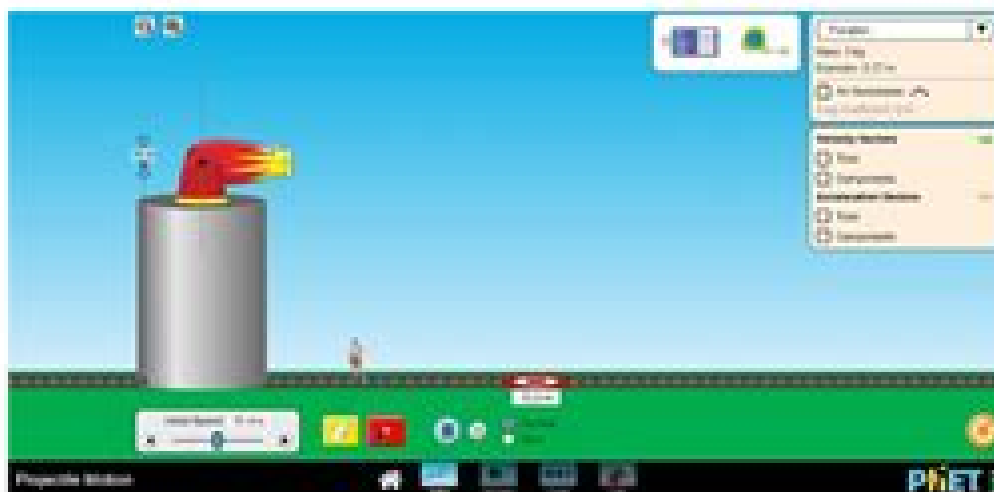
Description: Students use the PhET simulation "Projectile Motion" to understand how the trajectory of an object depends on its initial velocity, and to understand how air resistance affects the trajectory.

[Constants](#) | [Periodic Table](#)

Learning Goal:

To understand how the trajectory of an object depends on its initial velocity, and to understand how air resistance affects the trajectory.

For this problem, use the PhET simulation *Projectile Motion*. This simulation allows you to fire an object from a cannon, see its trajectory, and measure its height, range, and hang time (the amount of time in the air).



Start the simulation by selecting the option labeled "Intro". Press the red **Fire** icon to launch an object. You can choose the object by clicking on one of the objects in the scroll-down menu at top right. To adjust the cannon barrel's angle, click and drag on it. You can also adjust the **Initial Speed** of the object using the toolbar at the bottom left. Clicking **Air Resistance** displays the drag coefficient for the given object and enables air resistance during motion. To measure the height, range, or hang time, drag the box that contains these quantities from the top of the screen to the various points of interest along the object's trajectory (use the crosshairs to locate the exact point of interest).

Play around with the simulation. When you are done, click the **Erase** icon and set the object to a pumpkin prior to beginning Part A. For now leave **Air Resistance** unchecked.

Part A

First, you will investigate purely vertical motion. The kinematics equation for vertical motion (ignoring air resistance) is given by

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Paul G. Hewitt



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2005 Physics Education Research Conference Paula Heron, Laura McCullough, Jeffrey Marx, 2006-03-08 The papers included in these proceedings have been peer reviewed The 2005 Physics Education Research Conference covered a broad spectrum of current research directions including student learning of specific topics student attitudes and the effectiveness of various teaching methods The emphasis was on undergraduate instruction The theme of this conference was Connecting Physics Education Research Teacher Education at All Levels K 20 **Mastering Physics** Effective Educational Technologies Staff, Addison-Wesley, Addison-Wesley Publishing Staff, David Pritchard, 2003-07 MasteringPhysics a groundbreaking research proven online tutorial and physics homework assignment system provides a variety of tutorial and problem types with each problem type offering a different level of individualized on demand help to the reader Readers can thus receive help solving physics problems exactly when they need it most right at the point where they can't get any further The feedback provided is based on detailed statistical research that has identified the most common misconceptions and difficulties readers experience at each step The system has been rigorously tested at a range of schools with dramatic published educational results for readers of all abilities For college instructors students or anyone interested in physics *Mastering Physics Without Pearson Etext -- Instant Access*, Mastering Physics, 1982 Mastering Physics H. J. P. Keighley, 1984 **Mastering Physics** Pearson Prentice Hall, Richard Wolfson, 2006-06 **Mastering Physics**, 1984 **Getting Started with Mastering Physics**, 2004 **Value Pack** David Pritchard, 2004 *Student Access Kit for MasteringPhysics for College Physics* Randall D. Knight, Brian Jones, Stuart Field, 2006-10 In addition to being a groundbreaking online tutorial and homework assignment system MasteringPhysics™ is a 24/7 personalized tutor for students a time effective way to study and improve problem solving skills in preparation for class and exams URL www.masteringphysics.com **Mastering Physics** M.J. Harrison, F.R. McKim, 1999-02-26 This edition has been updated to provide the information needed to learn and master the essentials of physics It offers a self contained course for individual study or classroom use which requires no prior knowledge Questions and examples are also included Tutorials in Introductory Physics and Homework + University Physics + Modern Physics + Masteringphysics Lillian C. McDermott, Hugh D. Young, Peter S. Shaffer, Roger A. Freedman, Lewis Ford, 2008-07-27 This landmark book presents a series of physics tutorials designed by a leading physics education research group Emphasizing the development of concepts and scientific reasoning skills the tutorials focus on common conceptual and reasoning difficulties The tutorials cover a range of topics in Mechanics E M and Waves Optics **Physics for Scientists and Engineers** Randall D. Knight, 2007-12-17 Package consists of 0130970697 9780130970695 Tutorials In Introductory Physics and Homework Package 0321513339 9780321513335 Physics for Scientists and Engineers A Strategic Approach with Modern Physics and MasteringPhysics **Essential University Physics** Richard Wolfson, 2013-08-29 This package includes a physical copy of Essential University Physics 2 e by Richard

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