CONCEPTUAL PHYSICS: Hewitt/Baird

Tech Lab

Projectile and Satellite Motion

Orbital Mechanics Simulation

# Worlds of Wonder

#### Purpose

To use a simulation to study the orbital mechanics of a simplified solar system

#### Apparatus

computer.

PhET simulation: "My Solar System" (available at http://phet.colorado.edu)

#### Discussion.

Lab activities involving stars and planets are difficult to conduct inside a classroom or laboratory. Since we cannot create stars and planets to experiment with in the classroom, we will use a computer simulation that uses the laws of gravity to show the behavior of large objects at great distances from one another.

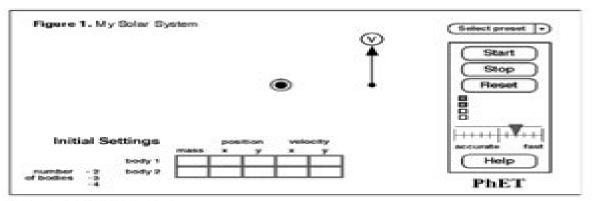
#### Procedure

#### SETUP

Step 1: Start the computer and let it complete its start-up process.

Step 2: Open the PhET simulation. "My Solar System." If you're not sure how to do this, ask your instructor for assistance.

Step 3: When the simulation opens, the screen should resemble the figure below.



#### PART A: NEWTON'S CANNON

I saac Newton explained that universal gravitation accounted for both the fall of an apple and the orbit of the Moon. At the time, this was hard for people to understand. Newton used a thought experiment to how the same force could explain free fall and orbital motion. In this activity, you will simulate 'Newton's Cannon."

More curriculum can be found in Pearson Addison Wesley's Conceptual Physics Laboratory Manual: Activities - Experiments - Demonstrations - Tech Labs by Paul G. Hewitt and Dean Baird. ISBN: 0321732480

# **Techlab Worlds Of Wonder Answer Sheet**

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