

# Phet Tutorial Pendulum Lab Mastering Physics Answers

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## **PhET Pendulum Lab - motion, pendulum, simple harmonic motion**

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## **Pendulum Lab - Periodic Motion - PhET**

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Play with one or two pendulums and discover how the period of a simple pendulum depends on the length of the string, the mass of the pendulum bob, the strength of gravity, and the amplitude of the swing. Observe the energy in the system in real-time, and vary the amount of friction. Measure the period using the stopwatch or period timer. Use the pendulum to find the value of  $g$  on Planet X ...

### Pendulum lab Simulation

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### **Pendulum Lab - PhET**

Pendulum Lab 2.03 - PhET Interactive Simulations

#### **Pendulum Lab 2.03 - PhET Interactive Simulations**

Play with one or two pendulums and discover how the period of a simple pendulum depends on the length of the string, the mass of the pendulum bob, the strength of gravity, and the amplitude of the swing. Observe the energy in the system in real-time, and vary the amount of friction. Measure the period using the stopwatch or period timer. Use the pendulum to find the value of  $g$  on Planet X ...

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### **Physics - PhET Simulations**

PhET Simulation: Pendulum Lab This updated, mobile-ready PhET simulation provides an array of tools for analyzing energy transformation in a pendulum system. Watch the pendulum swing as an ideal system or add friction and see it gradually slow down. Change the mass and length of the string to see how these variables affect the motion.

#### **Pendulum Lab - Motion, Pendulum, Simple Harmonic Motion - PhET**

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### **PhET Simulation: Pendulum Lab**

This is the original Java version of the PhET Faraday's Law simulation. It features five interactive models to explore magnetic fields and Faraday's Law of Induction with movable magnets and coils, AC and DC electromagnets, transformers, and generators.

### **MasteringPhysics: PhET Tutorials**

Learning Goal: To understand how the motion and energetics of a weight attached to a vertical spring depend on the mass, the spring constant, and initial conditions. For this tutorial, use the PhET simulation Masses & Springs. You can put a weight on the end of a hanging spring, stretch the spring, and watch the resulting motion.

### **PhET SIMULATIONS**

Play with one or two pendulums and discover how the period of a simple pendulum depends on the length of the string, the mass of the pendulum bob, and the amplitude of the swing. It's easy to measure the period using the photogate timer. You can vary friction and the strength of gravity. Use the pendulum to find the value of  $g$  on planet X. Notice the anharmonic behavior at large amplitude.

### **Mastering Mastering Physics Problems & Step-By-Step ...**

Pendulum Lab Play with one or two pendulums and discover how the period of a simple pendulum depends on the length of the string, the mass of the pendulum bob, and the amplitude of the swing. It's easy to measure the period using the photogate timer.

### **Pendulum | Mastering Physics Solutions**

Help students make connections to the real world. Assign new tutorials using the interactive research-based simulations from the PhET Group at the University of Colorado, Boulder.

### **The Simple Pendulum | Physics**

PhET Tutorial: Projectile Motion Physics Homework? Press Fire to launch an object. You can choose the object by clicking on one of the objects in the scroll-down menu at top right (a cannonball is not among the choices). To adjust the cannon barrel's angle, click and drag on it or type in a numerical value (in degrees). You can also adjust ...

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