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Conservation of  
Energy using  
Masses and  
Springs ... -  
PhET  
Stretch and  
compress springs  
to explore the  
relationships  
between force,  
spring constant,  
displacement,  
and potential

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energy!

Investigate what happens when two springs are connected in series and parallel.

Springs Phet Lab  
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Hang masses from springs and adjust the



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spring constant  
and damping.

Transport the  
lab to different  
planets, or slow  
down time.

Observe the  
forces and  
energy in the  
system in real-  
time, and  
measure the  
period using the  
stopwatch.

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**PhET Teacher**

**Activities:**

**Hooke's Law**

**1: Determine the spring constant,  $k$ , of Spring 1, by using Hooke's Law. Take three different measurements (since 3 masses) and do three calculations and**

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average your  $k$ 's to get a more accurate answer. By applying lots of friction, you will be able to get your mass to hang still. Show a table of your data and your calculations of  $k$ .

**Masses and**

*Page 11/39*

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Springs Lab - 4  
Revised-Marwan  
Hothan | Force

...

A realistic mass  
and spring  
laboratory. Hang  
masses from  
springs and  
adjust the  
spring stiffness  
and damping. You  
can even slow  
time. Transport

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the lab to  
different  
planets. A chart  
shows the  
kinetic,  
potential, and  
thermal energy  
for each spring.

Masses and  
Springs Lab  
answer key is  
available by  
contacting the

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authors.

Classroom

Learning Module:  
Understanding  
Periodic Motion

This is a two-  
part lesson from  
TeachEngineering  
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digital library  
developed to  
make

PhET Simulation:

*Page 14/39*

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**Masses & Springs  
Relations**

A set of guided  
student problems  
with answer key,  
developed  
specifically for  
use in high  
school physics  
with the PhET  
simulation

**Masses &  
Springs.  
relation by**

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**Caroline Hall Is  
the Basis For  
PhET Teacher  
Activities:  
Springs and  
Things**

**Hooke's Law Lab  
- River Dell  
Regional School  
District**

**A simulation of  
masses hung from  
a scale**



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including gravity. Virtual lab tools, including a ruler and a stopwatch can be used to make quantitative measurements. Friction and spring constants can be adjusted, and energy graphed. Key

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topics: Hooke's  
Law, Springs,  
Conservation of  
Energy,  
Measuring  
Mass...

PhET Simulation:  
Masses & Springs  
Masses And  
Springs Phet Lab  
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Concentration  
Exercise Answers  
Key Calculation  
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Answer Key  
Natural  
Selection  
Simulation At  
Phet Vuniversity  
Of Colorado Phet

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Concentration

Exercise Springs

Hot Springs Spa

Torsion Springs

69530 Hot

Springs Spa

Crossfit Harbor

...

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- Name Pd

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Periodic ...

This simulation

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provides a  
realistic  
virtual mass-and-  
spring  
laboratory.

Users can  
explore spring  
motion by  
manipulating  
stiffness of the  
spring, the  
hanging mass,  
the initial  
pull, damping

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(friction) and gravity. This item is part of a larger...

Masses and  
Springs -  
Periodic Motion  
- PhET  
relation created  
by Caroline  
Hall. A  
comprehensive  
lesson plan for

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Answer Key

middle school  
that blends a  
classroom  
experiment with  
the PhET  
simulation  
Masses &  
Springs. Contains  
scripted teacher  
discussion,  
background  
information,  
student guide,  
assessment with

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answer key.

**Masses & Springs**

**2.03 - PhET**

**Interactive**

**Simulations**

**Title**

**Conservation of**

**Energy using**

**Masses and**

**Springs (Inquiry  
Based)**

**Description The**

**students will**



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use the  
simulation to  
learn the goals  
through an  
inquiry  
approach.

1 Determine the  
spring constant  
 $k$  of Spring 1 by  
using ...

Masses and  
Springs Lab - 4  
Revised-Marwan

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Physics lab at  
elearn.rodpa

PhET Simulation:  
Masses & Springs  
Lab 4 - Hooke's  
Law - PhET Lab

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Objectives 1. To investigate Hooke's Law (The relation between force and stretch for a spring),  $F = -kx$

2. To investigate Newton's 3<sup>rd</sup> Law (law of force pairs)

Introduction

Everybody knows

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that when you  
apply a force to  
a spring or a  
rubber band, it  
stretches.

Masses and  
Springs Homework  
Determine  
Unknowns ... -  
PhET  
Includes  
explicit  
directions for

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use of the  
simulation,  
homework  
problems, and  
answer key.

Note: Only  
registered users  
have access to  
the PhET teacher-  
contributed  
materials, but  
registration is  
free and easy.

Link to Unit:

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Conceptual  
Physics  
Conservation of  
Energy and  
Forces on a  
Spring Unit

Masses And  
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Simulations

Teacher Toolkit  
- Physics

Name: \_\_\_\_\_ Pd:  
\_\_\_\_\_ Springs

PhET Lab -

Periodic Motion  
and Hooke's Law

Introduction: To  
stretch a  
spring, a force  
must be applied.

Hooke's Law

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gives us the formula for how much force we need to apply to stretch or compress a spring. The spring constant "k" is the variable we use to express how stiff a spring is. A spring with a large



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spring constant  
requires a large  
force to  
compress it.

Hooke's Law -  
Springs | Force  
| Potential  
Energy - PhET

...

Masses and  
Springs Homework  
Determine  
Unknowns

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(Inquiry Based)

Description

Learning Goals:

Students will be able to explain how the mass of an object is determined using spring balances. Then they will be able to use the spring balance to determine the

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mass of an  
unknown object.  
Next, they will  
find the gravity  
on Planet X.

PhET Simulation:  
Masses & Springs  
A set of guided  
student problems  
with answer key,  
developed  
specifically for  
use in high

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Answer Key

school physics  
with the PhET  
simulation

Masses &  
Springs.

relation by  
Caroline Hall Is  
Required By PhET  
Teacher

Activities:  
Introduction to  
Oscillations

**Masses & Springs**

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- Mass, Springs,  
Force - PhET  
Hooke's Law PhET  
Lab. Purpose:

... This  
question was  
answered by  
Robert Hooke, a  
contemporary of  
Newton, and the  
answer has come  
to be called  
Hooke's Law.  
Hooke's Law,

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believe it or not, is a very important and widely-used law in physics and engineering. ...  
PhET Simulation  
Masses and  
Springs.  
Procedure: Go to  
PhET web address  
above and run  
...

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