

## Physics Lab Stair Climbing Power Answers

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### Physics Lab Stair Climbing Power

Power equals work divided by time. If work is in joules (J) and time is in seconds (s), power is expressed in joules/second, or the simplification watt (W). Objective: To find out how much power you use when climbing the stars. To practice calculating work and power. Materials: scale metric ruler stairs stopwatch Procedure: 1.

### Stair-Climbing Power Lab

PROCEDURE (STAIR-CLIMBING) 1. Your weight is equal to the force required to walk up the stairs at constant speed. Multiply your weight in pounds by 4.45 to convert it to units of Newtons. 2. Measure the vertical heights (in meters) of 1 set of stairs, 2 sets of stairs and 3 sets of stairs and record your

### LAB (WORK & POWER) NAME: PHYSICS - TALBOO DATE: PERIOD:

Lab Teacher's Guide Topic: Work, Energy and Power The following information is provided to the student: Question: What is my power requirement for climbing a staircase - both by walking and by running? Purpose: To determine my power requirement for climbing a

### Powerhouse Lab - Physics

View Lab Report - Stair Climbing and Power Lab for Physics Fall 2018 Fixed.docx from SCIENCE 4945 at St. Xavier High School. STAIR CLIMBING AND POWER Background: Can you estimate the power you

### Stair Climbing and Power Lab for Physics Fall 2018 Fixed ...

Goetsch 10/20/2006 PHY stair climbing lab.doc. Title: Stair-Climbing Power Lab Author: sg Last modified by: goetschs Created Date: 10/20/2006 8:24:00 PM Company: esd Other titles: Stair-Climbing Power Lab ...

### Stair-Climbing Power Lab - Episcopal School of Dallas

Date: Physics Stair-Climbing Power Lab Objective: 1) To find out how much power you use when climbing the stars. Materials: metric ruler stairs stopwatch Procedure: 1) Measure your weight using the scale. Weight should be expressed in newtons. Convert pounds to kilograms by dividing pounds by 2.205.

### Physics Stair-Climbing Power Lab

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Stair-Climbing Power Lab Name: \_\_\_\_\_ Background Information: Work equals force times the distance through which the force acts. Force is expressed in newtons (N) and distance is expressed in meters (m). Work is expressed in newton-meters, or the simplification, joules (J). The rate which work is done is called power.

### **Stair-Climbing Power Lab - WordPress.com**

By: Michaela Pocock, Lauren Butters, and Marley Brown. Blog. July 14, 2020. Teaching online art classes: How one teacher used Prezi Video in her class

### **Work and Power Lab by Michaela Pocock on Prezi Next**

Physics 4A balewis Tuesday, November 13, 2012. Human Power Lab In this lab we are determining the power output of ourselves from walking up stairs. In order to perform the lab we are going to need: two meter metersticks; ... If we use our hands and arms then we are outputting more power to get ourselves up the stairs.\ 2. Some problems that can ...

### **Physics 4A balewis: Human Power Lab**

Lab: Work & Power / 10. Favorite Fruit: ... Is your power greater for walking or running up the stairs, and why? 2. If you were the power source for an electric generator, how many 60-watt light bulbs could you light up when you walked up the stairs? ... would there be any difference in your stair-climbing power and your ladder-climbing power ...

### **Work and Power Lab - Michigan State University**

Physics Lab Worksheet, pp. 147-150 Teaching Transparency 10-2 Teaching Transparency 10-3 Teaching Transparency 10-4 Connecting Math to Physics ... power climbing steep hills, traversing flat terrain at high speeds, and safely descending hills. Think About This How does a multispeed

### **Section/Objectives Standards Lab and Demo Planning**

1. Potential energy = work done in climbing the stairs to the top =  $2.50 \times 10^3 \text{ J}$  2. a. The work done in climbing the stairs does not depend on the time. b. The work done in climbing the stairs does not depend on the time. 3. a. work 2 work 1 2  $P t t$  , which yields twice the power b. Work 2  $P t$  , which yields half the power 4. a.

### **Middle Grades Science OPEN LESSON**

A common physics lab involves quickly climbing a flight of stairs and using mass, height and time information to determine a student's personal power. Despite the diagonal motion along the staircase, it is often assumed that the horizontal motion is constant and all the force from the steps is used to elevate the student upward at a constant speed.

### **Power - Physics**

The faster you climb the stairs, the more power you will develop. Computing the amount of power you develop: Power is the amount of work you do divided by the amount of time it took to do the work. The work you did in climbing the stairs is the force you applied (your weight) times the distance you moved upward (the height of the stairs.) That is:

### **Force, Work and Power: Student Activities**

Visit <http://ilectureonline.com> for more math and science lectures! In this video I will show you how to calculate how many calories it takes to exercise an ...

### **Physics - Mechanics: Work, Energy, and Power (20 of 20 ...**

Shows how to calculate the power output of a person when they are running up the stairs. Worked example. Power is the rate at which work is done. Also stated as how fast work is done. Power is ...

### **Energy, Work & Power (29 of 31) Power, Calculate Power Output When Running Up Stairs**

LAB PHYSICS LAB SHEET WORK, POWER & ENERGY DATE: \_\_\_ PURPOSE: To compare the work done by you and the power you generate as you climb one flight of stairs at different speeds. MATERIALS: meter stick, stop watch PROCEDURE: 1. Count the number of steps that will be used during the lab. 2. Carefully measure the height of one of those steps in ...

### **LAB PHYSICS LAB SHEET WORK, POWER & ENERGY DATE:**

Download 2.3 Lab Stair Climbing and Power and follow instructions There are many different forms of energy but for the moment you'll be looking at Kinetic and Gravitational Potential energies. Watch the the video.

### **2.3 Work Energy and Power (3) - IBDP PHYSICS**

Lab 3: Work, Energy & Power Essentials of Physics: PHYS 101 Most of us love the dear old Earth, in fact we're quite attracted to it. That attraction arises from the Earth's large mass, not the fact that it is spinning. When we lift a book away from the center of dear old Earth, we do work on that book. We do work because we must counteract its

### **Lab 3: Work, Energy & Power Essentials of Physics: PHYS 101**

Work and Power Lab Purpose To calculate the power output of a machine. Safety Do not physically engage in this activity if you have an injury or a respiratory or cardiovascular condition! Materials Stopwatch/timer, meter stick, stairs, 3 machines (3 humans) Procedure 1. Find the height of the stairs to be climbed. (in meters)

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