

## Physics Lab Stair Climbing Power Answers

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### Work and Power Lab - Michigan State University

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)

### Stair-Climbing Power Lab

4) Compare your power output with the output of a horse by calculating your horsepower. The conversion is on the front of this lab. (Do you think you could keep up that power level for hours, like horses do?) Conclusions: 1) How does your power output in climbing the stairs compare to the power output of a 100-watt light bulb?

### Physics Lab Stair Climbing Power

PS Physics Stair-Climbing Power Lab Name: \_\_\_\_\_ Period: \_\_\_\_\_ 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).

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

Section/Objectives Standards Lab and Demo Planning National State/Local Chapter Opener 1. Describe the relationship between work and ... Mini Lab Worksheet, p. 145 Physics Lab Worksheet, pp. 147–150 Teaching Transparency 10-2 Teaching Transparency 10-3 ... power climbing steep hills, traversing flat terrain at high speeds, and safely ...

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

What is my power requirement for climbing a staircase ? both by walking and by running? Purpose: To determine my power requirement for climbing a staircase ? both by walking and by running. A complete lab write'up includes a Title, a Purpose, a Data section, and

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

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: ... If we use our hands and arms then we are outputing more power to get ourselves up the stairs.\ 2. Some problems that can affect the accuracy of ...

### In a stair case power lab, if you have the height of the ...

Stair-Climbing Power Lab Background Information. Name: 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. Power equals work divided by time. If

### Stair-Climbing Power Lab

common use in advertising the power of automobiles. PURPOSE To investigate the concepts of WORK and POWER through direct measurement of the distance and time associated with climbing stairs and lifting weights. PROCEDURE (STAIR-CLIMBING) 1. Your weight is equal to the force required to walk up the stairs at constant speed. Multiply your weight in

### Lesson Plans: Work, Force, and Energy, A Lab Investigation ...

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

### Middle Grades Science OPEN LESSON - nms.org

Connecting Biology and Physics. In science education, there is a golden opportunity to make real world connections with information that is current and relative to the student. Science Educators teach POWER, FORCE, ENERGY, NUTRITION, & WORK as components of Physical Science and/or Physics, Biology, Chemistry, and Health.

### Work and Power Lab - Millersburg Area School District

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.)

### Force, Work and Power: Student Activities

Physics. A record was set for stair climbing when a man ran up the 2100 steps of the Empire State Building in 15 minutes and 10 seconds. If the height gain of each step was 0.2 m, and the man's mass was 73.0 kg, what was his average power . asked by Bex on October 12, 2016; Lab in general

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

Climbing stairs requires energy. As your body moves up through a distance, work is done. Power is a measure of the rate at which work is done. In this activity you will try to maximize the power you develop as you move up a flight of stairs.

### Powerhouse Lab - Physics

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.

### Section/Objectives Standards Lab and Demo Planning

3. If you could climb a ladder of the same height as the stairs in the same amount of time that you walked up the stairs, would there be any difference in your stair-climbing power and your ladder-climbing power? Explain.

### The Physics Classroom Website

By: Michaela Pocock, Lauren Butters, and Marley Brown

### Physics 4A balewis Human Power Lab

During the Powerhouse lab, Jerome runs up the stairs, elevating his 102 kg body a vertical distance of 2.29 meters in a time of 1.32 seconds at a constant speed.

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

• Middle Grades Physics Assessment: Work, Power and Energy • 2006 Middle Grades 8 Posttest, Free Response Question 2 ... level as they climb a ? ight of stairs. The pre-lab should include a discussion of the scienti? c de? nition of work contrasted with the common language de? nition. ... The work done in climbing the stairs does ...

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