

Physics Lab Stair Climbing Power Answers

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Physics Lab Stair Climbing Power

Stair-Climbing Power Lab

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)

Physics Stair-Climbing Power Lab

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 ...

Stair-Climbing Power Lab - WordPress.com

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Stair-Climbing Power Lab - Weebly

Work exerted climbing the stairs (J) Power (W) Time (s) Work exerted climbing the stairs (J) Power (W) Trial 1 Trial 2 Trial 3 average (Show calculations on the back of this page for total height of stairs, work performed climbing the stairs, and power) Table 2: Your choice of physical exercise My choice of physical exercise: Force in this

5garzon.weebly.com

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

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

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

Measure Your Own Power Lab - Croom Physics

Mr Croom's Physics Measure Your Own Power Lab 05-3 Measure Your Own Power Lab Purpose To Better Understand Mechanical Power as the Time rate of Change of Energy or the rate at which work is done Materials -Staircase -Stopwatch Microsoft Word - Stair Lab

LAB PHYSICS LAB SHEET WORK, POWER & ENERGY DATE:

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 ...

Powerhouse Lab - Physics

The Physics Classroom, 2009 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 Allow students to skip steps so that the lab becomes a measure of power and not of foot

Stair Climb Test (SCT) Performance Measure Considerations

Stair Climb Test (SCT) Performance Measure Considerations Which type of TJA is it appropriate for? THA and TKA What part of the TJA continuum is it appropriate for? Pre-op Post-acute Active Living What domain(s) does it measure within the ICF? Activity Who completes it? ...

Work and Power Lab - Millersburg Area School District

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)

Measuring Work, Energy, and Power

Measuring Work, Energy, and Power Any time work is done on an object the energy of that object is changed When you climb stairs you do work on your mass and increase your potential energy The amount of work you do is equal to the change in your potential energy Power is the rate at which work is done If you climb the stairs quickly,

People Power from one unit of power to another. quickly ...

power, which is defined as the work done per unit of time, or the rate of doing work In terms of a formula Power = work done time for stair climbing Power = weight (Newtons) × height of stairs (meters) time (seconds) The power output of the student walking up the stairs in 10 seconds is Power = work done time = 550 N × 3 m 10 seconds = 165 watts

PT1.Stair-Climbing Power Objective

Goetsch 4/22/2016 phy_stair_climbing_lab 1) How does your power output in climbing the stairs compare to the power output of a 100-watt light bulb? If your power could have been harnessed and the energy converted to electricity, how many 100-watt bulbs could you have kept burning during your climb?

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

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

Energy Lab Key - Southeast Missouri State University

Work done in climbing to 2nd floor: 1,801 J (Joules) (Show calculations, write equations first) energy necessary to power your muscles, nourish and repair cells, and to keep you climb that high you will actually burn many more than 100 Calories Go for it! Title: Energy Lab KeyPDF

Middle Grades Science OPEN LESSON - National Math and ...

• Middle Grades Physics Assessment: Work, Power and Energy • 2006 Middle Grades 8 Posttest, Free Response Question 2 Potential energy = work done in climbing the stairs to the top = 250×103 J Each lab group will need the following: meter stick stopwatch string washer, 2 in

Section/Objectives Standards Lab and Demo Planning

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

Work & Power - Homestead

Work & Power 1 Name_____ Work & Power Questions: 1 Do you do more work climbing stairs quickly or climbing stairs slowly? 2 Does it take more power to climb stairs quickly or climb stairs slowly? Background Information: You are doing work when you use ...

Work, Power, & Energy

Work, Power & Energy 1 Work, Power, & Energy In physics, work is done when a force acting on an object causes it to move a distance There are several good examples of work which can be observed everyday - a person pushing a grocery cart down the aisle of a