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Chapter 6: Work, Energy and Power Tuesday February 10th
Reading: up to page 88 in the text book (Ch. 6) •Finish Newton's laws and circular motion •Energy • Work (definition) • Examples of

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work • Work and Kinetic Energy • Conservative and non-conservative forces • Work and Potential Energy • Conservation of Energy

Work-Kinetic Energy theorem • We can now replace any work due to conservative forces by potential energy terms, i.e., $\Delta K + \Delta U = W_{nc}$. $\Delta E_{mech} = \Delta K + \Delta U = W_{nc}$. Or • Here, E_{mech} is the total mechanical energy of a system, equal to the sum of the kinetic and potential energy of the system. • If work is performed on the system by an

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external, non-

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Physics 1120: Work & Energy Solutions Energy 1. ... Use your answer to part (a) and calculus to find the height at which the speed

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is a maximum. (a) The problem involves a change in height and speed and has a spring, so we would apply the generalized Work-Energy ...

A Guide to Work, Energy and Power Teaching Approach Work, Energy and Power is a topic which comprise of three concepts which are very closely related – work and energy and power. The words “work” and “power” must be clearly defined as science concepts and it must be further clarified to the learners that these

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words do not

Work, Energy and Power – page 1 Work, Power and Energy
Worksheet Work and Power 1. Calculate the work done by a 47 N
force pushing a pencil 0.26 m. 2. Calculate the work done by a 47 N
force pushing a 0.025 kg pencil 0.25 m against a force of 23 N. 3.
Calculate the work done by a 2.4 N force pushing a 400. g
sandwich across a table 0.75 m ...

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OCR (A) specifications: 5.1.4h,i,j,k,l,m,n Chapter 6 Work, energy and power Worksheet Worked examples Practical: Gravitational potential energy to kinetic energy transformation End-of-chapter test Marking scheme: Worksheet Marking scheme: End-of-chapter test Worksheet acceleration of free fall $g = 9.81 \text{ m s}^{-2}$ Intermediate level 1 Define work done by a force.

6 ENERGY, WORK AND POWER CONVERSION OF ENERGY
We have already explained how kinetic energy and gravitational

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potential energy can be converted backwards and forwards. In fact any type of energy can be converted into any other type of energy. In some cases this conversion can be done efficiently, such as between kinetic energy and electrical energy.

Work, Energy and Power Review Package 1) Work: change in energy. Measured in Joules, J. $W = Fd$ and $W = \Delta E$ where change in energy can be both KE or PE Work is scalar but can be negative. To remember this, ask yourself either:

- Is the object is losing energy

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(i.e. E is decreasing) • Is the force in the opposite direction of motion

11/2/2016 · Work, Energy, & Power Practice Quiz Name _____

VOCABULARY: IDENTIFY THE FOLLOWING 1. The SI units for energy and work **JOULES** 2. SI unit for power that is equivalent to Joules/second. **WATTS** 3. Type of energy associated with the motion of an object. **KINETIC** 4.

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AP Physics 1- Work, Energy, & Power Practice Problems

ANSWERS FACT: The amount of work done by a steady force is the amount of force multiplied by the distance an object moves parallel to that force: $W = F \times \cos(\theta) \times d$. The units are N. m, which equal a Joule (J). Positive work is done by a force parallel to an object's displacement.

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Answers: 1. b 2. d 3. a 4. b 5. b 6. b 7. c 8. a 9. c 10. c 11. b 12. c
13. $v=20.7$ m/s 14. b) 35 J c) the force applied to the

PHYSICS 336:TEST ON WORK, POWER, AND ENERGY
NAME _____ MULTIPLE GUESS: CIRCLE the ANSWER of the MOST correct choice for each of the following. 1. If it takes a force

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of 20 N to stretch a spring 0.1 meter, how much energy does the spring have? a. ...

1.1 Define power in words. (2) 1.2 Draw a labelled free-body diagram showing ALL the forces acting on the truck as it moves up the incline. (4) 1.3 Use the **WORK-ENERGY THEOREM** to calculate the work done by the engine of the truck to get it to the top of the incline. (5)

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6 ENERGY, WORK AND POWER CONVERSION OF ENERGY

We have already explained how kinetic energy and gravitational potential energy can be converted backwards and forwards. In fact any type of energy can be converted into any other type of energy. In some cases this conversion can be done efficiently, such as between kinetic energy and electrical energy.

Work, Energy and Momentum Notes 1 – Work Work is defined as the transfer of energy from one body to another. Or more

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rigorously: We can calculate the work done on an object with: the units of work are Nm or Joules Note that these are the same units as torque ...

5 Energy and Machines 63 5-1 Work and Power 63 5-2 Energy 66
5-3 Machines and Efficiency 72 6 Circular and Rotational Motion
81 6-1 Centripetal Acceleration and Force 81 6-2 Torque 87 6-3
Moment of Inertia and Angular Momentum 91 7 Law of Universal
Gravitation 97 7-1 Gravitational Force 97 7-2 Gravitational

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Acceleration 101 7-3 Escape Speed 104

WORK, POWER AND ENERGY. WORK. If an object or system, such as your body, exerts a force on an object and that force causes the object's position to change, you are doing work on the object. When a physicist is talking about work, he mainly talks about a force causing a displacement of an object in the same action of line.

AP Physics 1- Work, Energy, & Power Practice Problems

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ANSWERS FACT: The amount of work done by a steady force is the amount of force multiplied by the distance an object moves parallel to that force: $W = F \times \cos(\theta)$. The units are N. m, which equal a Joule (J). Positive work is done by a force parallel to an object's displacement.

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Physics Practice Problems: Work and Energy Page 2 of 5 Power:
20. A skier of mass 70 kg is pulled up a slope by a motor-driven cable. a) How much power is required to pull him 100 m up a 30° frictionless slope at a constant speed of 2 m/s? b) How ...

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to revise complete Syllabus and ...

Work, Energy and Power In this section of the Transport unit, we will look at the energy changes that take place when a force acts upon an object. Energy can't be created or destroyed, it can only be changed from one type into another type. We call this rule conservation of energy. Work Work and energy are the same thing. When a force moves

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Work, Energy and Momentum Notes 1 – Work Work is defined as the transfer of energy from one body to another. Or more rigorously: We can calculate the work done on an object with: the units of work are Nm or Joules Note that these are the same units as torque ...

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5-3 Machines and Efficiency 72 6 Circular and Rotational Motion
81 6-1 Centripetal Acceleration and Force 81 6-2 Torque 87 6-3

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