



Energy storage and transfer model worksheet 5 key

Question: Name here Date Energy Storage and Transfer Model Worksheet 5: Energy Transfer and Power

1. A student eats a tasty school lunch containing 700 Calories. (One food Calorie 4186 Joules.) Due to basal metabolism, the student radiates about 100 Joules per second into the environment. a. How long would the student have to sit on a couch ...

Energy Storage and Transfer Model Worksheet 2: Hooke's Law and Elastic Energy. Suppose one lab group found that $F = 1000 \text{ N/m}$ (Δx). Construct a graphical representation of force vs. displacement. (Hint: make the maximum displacement 0.25 m.) 1. Graphically determine the amount of energy stored while stretching the spring described above ...

Energy Storage and Transfer Model Worksheet 4: Quantitative Energy Calculations & Energy Conservation. Be careful with units and unit conversions! 1. How much kinetic energy does a 2000 kg SUV traveling 70 mph have? (1 mile = 1600 meters) 2. How much energy does a 180 Calorie, half-pint carton of chocolate milk store? (One food Calorie = 4186 ...

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Energy Model Worksheet 1b: Qualitative Analysis - Pie Charts ... and draw an energy storage pie for each lettered position. ©Modeling Instruction 2010 2 U8 Energy - ws 1b v3.0 4. An object rests on a coiled spring, and is then launched upwards. 5. A piece of clay is dropped to the floor.

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Modeling Instruction - AMTA 2013 1 U8 Energy - ws 1b v3.1 Energy Storage and Transfer Model Worksheet 1b: Qualitative Analysis - Pie Charts Use pie charts to analyze the energy changes in each situation given. Designate your choice of system with a dotted line. Choose your system so that the energies involved are internal (within the system).

Energy Storage and Transfer Model Worksheet 2: Hooke's Law and Elastic Energy Suppose one lab group found that $F = 1000 \text{ N/m}$ (x). Construct a graphical representation of force vs. displacement. (Hint: make the maximum displacement 0 m.) 1. Graphically determine the amount of energy stored while

4. Sketch the energy bar graph for position A, indicate any energy flow into or out of the system from position A to position B on the System/Flow diagram, and sketch the energy bar graph for position B. 5. Write a qualitative energy equation that indicates the initial, transferred, and final energy of your system. 1a.

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1. How much kinetic energy does a 2000 kg SUV traveling 70 mph have? (1 mile = 1600 meters) 2. How much energy does a 180 Calorie, half-pint carton of chocolate milk store? (One food ...

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©Modeling Instruction - AMTA 2013 1 U8 Energy - reading 1 v3.1 Energy Storage and Transfer Model Energy- a conserved, substance-like quantity with the capability to produce change. This is what we need to make "stuff " happen. Energy is universal - it does not come in different "kinds" or exist in different "forms."

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The energy is initially stored in the elastic potential store of the spring. When this is released it does mechanical work and causes the car to move, increasing its kinetic store. As the car moves up the hill mechanical work is done against gravity to transfer this energy to the gravitational store of the car. When it has stopped all

Energy Storage and Transfer Model Worksheet 5. Energy Storage and Transfer Model Worksheet 4. Three balls are rolled down three tracks starting from rest at the point marked start a. The answer to each will be either conduction convection or radiation. WORKSHEET 2 ANSWERS Suggest an appropriate storage device for each of the following applications.

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01- Teacher Notes; Teacher Notes on energy storage; 02- Energy model: Key Ideas; 03- Activity#1: Introduction to Energy; 04- Reading 1: Summary of the Energy Model; ... 11- Worksheet 5: Energy Transfer and Power; 12- Storyboard: Diffusion; 13- Worksheet 6: Energy changes in a ...

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