



# Energy storage and transfer model worksheet 2 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.

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 ...

o The pies should be accurately divided and labeled with the energy storage mechanisms involved. o Remember the 3 energy questions in deciding about the energy changes: 1. Where does the energy come from? (What's the source of the energy?) 2. What does the energy do? 3. Where does the energy go? 1. A wind-up toy is fully wound and at rest. 2.

Energy Storage and Transfer Model Worksheet 4: Quantitative Energy Calculations & Energy Conservation ... 2. How much energy does a 180 Calorie, half-pint carton of chocolate milk store? (One food Calorie = 4186 Joules) 3. Consider your 3 kg physics binder resting on the table in the classroom. Determine the gravitational energy of the earth-

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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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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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Write a qualitative energy equation that indicates the initial, transferred, and final energy of your system. 1a. In the situation shown below, a spring launches a roller coaster cart from rest on a ...

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

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Energy Storage and Transfer Model: 1. Three balls are rolled down three tracks starting from rest at the point marked "start.". a. Describe the acceleration of the ball traveling on track A. b. ...

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.

Money analogy: A useful analogy to help understand energy storage and transfer is to compare energy to money. We will define "the system" as the personal and institutional places where you keep your money. You can store your money in a number of ways: in a checking account, savings account, cash in a piggy bank, or a stock mutual fund.

2) Work done against spring changes or stores spring potential energy:  $-W_s = \frac{1}{2}k(x^2) = U_s$  where  $D_x$  is the displacement from equilibrium. Stored spring potential energy or  $U_s$  depends on the square of springs displacement from equilibrium so as the spring is stretched out more, the energy stored increases quadratically.

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