



Energy storage and transfer quiz 2

quantitative energy conservation

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 Joules) 3.

This document presents a quiz focused on energy conservation principles, including kinetic, elastic, and gravitational energy equations. It includes problems requiring qualitative analysis and energy flow diagrams to solve for maximum heights and energy stored in

The energy transfer pathways are: Mechanical. Electrical. Heating. Radiation. These are described in the table below: Table of energy transfer pathways. An example of an energy transfer by heating is a cup of hot coffee heating up cold hands. Energy is transferred by heating from the hot coffee to the mug to the cold hands. Did this video help you?

1. A ball has an initial velocity of 3 m/s. If there is no friction, what is the highest it could roll? Begin your solution with qualitative bar graphs and an energy flow diagram. View full document. 2. A dart gun vertically launches a 25g dart 50 cm high. Determine the minimum energy stored in the spring when the dart gun was loaded.

To use the representation for quantitative analysis, a mathematical expression or energy value can be written below each bar and the energy flow diagram. The sum of the initial stored energy in the system plus or minus any energy flowing in or out of the system equals the sum of the final stored energy in the system.

chemical change. the composition of a substance is changed, which requires the breaking and forming of chemical bonds during a chemical reaction. thermal energy. (also called heat energy) produced when a rise in temperature causes atoms and molecules to ...

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