

Name: _____

Work, Energy & Power Review Questions



1. An 80-kilogram student slides down a water slide at a constant speed of 15 m/s. What is the kinetic energy of the student?

$$KE = \frac{1}{2}mv^2 = \frac{1}{2}(80\text{ kg})(15\frac{\text{m}}{\text{s}})^2 = \boxed{9000\text{ J}}$$

2. If the speed of a moving object is tripled, the kinetic energy of the object is x9.

$$9KE = \frac{1}{2}m(3v)^2$$

3. While playing with his new toy, Cameron runs a 15-kilogram RC car into a tree such that it loses 2,000 joules of kinetic energy. What was the speed of the car at the moment it began to slow down? Where did that energy go?

$$\Delta K = 2000\text{ J} = \frac{1}{2}mv^2 \Rightarrow 4000\text{ J} = mv^2 \Rightarrow v^2 = \frac{4000\text{ J}}{15\text{ kg}} \Rightarrow v^2 = 267 \frac{\text{m}^2}{\text{s}^2} \Rightarrow \boxed{v = 16.3 \frac{\text{m}}{\text{s}}}$$



4. While riding an elevator, a 70-kilogram woman is raised a vertical distance of 60 meters in a time of 8 seconds.

A) What force must the elevator apply to the woman to raise her?

$$F_{\text{up}} = mg = (70\text{ kg})(9.81\frac{\text{m}}{\text{s}^2}) = \boxed{686.7\text{ N}}$$

B) How much work does the elevator do on the woman?

$$W = Fd = (686.7\text{ N})(60\text{ m}) = \boxed{41,202\text{ J}}$$

C) How much power must the elevator apply to the woman?

$$P = \frac{W}{t} = \frac{41,202\text{ J}}{8\text{ s}} = \boxed{5150\text{ W}}$$

D) What is the woman's change in gravitational potential energy?

$$\Delta PE_g = \boxed{41,202\text{ J}}$$

E) Assume an energy tracking device determines that the actual energy used by the elevator to raise the woman was 50,000 joules. How could you explain the discrepancy?

8798 Joules of energy lost to friction (internal energy)

Physical Science Work And Power Worksheet Answers

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and conflicts between Europe and Asia Current Index to Journals in Education ,1997-10 Science Interactions Robert W. Avakian,1995-07-17 **Using Analogies in Middle and Secondary Science Classrooms** Allan G. Harrison,Richard K. Coll,2008 Makes a distinct contribution to science instruction Many teachers attempt to use analogies and metaphors to introduce abstract concepts however little is available on how to do this with specific examples The authors definitely address a need Douglas Llewellyn Professor of Science EducationSt John Fisher College Helps preservice and novice teachers use analogies and allows teachers to bridge the gap that sometimes occurs when students are learning abstract concepts The examples cover a wide variety of subjects and are written in a concise easy to understand voice John D Ophus Assistant Professor of Science EducationUniversity of Northern Iowa Use the power of analogies to enliven your science classroom and meet national standards When analogies are effective they readily engage students interest and clarify difficult and abstract ideas But not all analogies are created equal and developing them is not always intuitive Drawing from an extensive research base on the use of analogies in the classroom Allan Harrison Richard Coll and a team of science experts come to the rescue with more than 40 teacher friendly ready to use analogies for biology earth and space studies chemistry and physics The authors show teachers how and when to select analogies for instruction why certain analogies work or break down how to gauge their effectiveness and how to improve them Designed to enhance teachers presentation and interpretation of analogies through focus action and reflection FAR this guidebook includes Key science concepts explained through effective models and analogies Research findings on the use of analogies and their motivational impact Guidelines that allow teachers and students to develop their own analogies Numerous visual aids science vignettes and anecdotes to support the use of analogies Linked to NSTA standards Using Analogies in Middle Secondary Science Classrooms will become a much used text by teachers who want to enrich inquiry based science instruction *Science Insights* ,1999 *Modern Science and the Book of Genesis* James William Skehan,National Science Teachers Association,1986 Based on the premise that knowledge of evolutionary theory is essential for understanding the natural world this document was designed to assist science teachers and others as they consider the issues that influence the teaching of evolution The position is taken that there is no conflict between data and sound theories based on science and religious beliefs based on the Bible Information and perspectives are presented under the topic headings of 1 The Genesis of Genesis 2 Early Science Interprets Genesis 3 New Data 4 Creationism versus Science and 5 Two Kinds of Knowledge References are listed and the National Science Teacher Association s position statement on the Inclusion of Nonscience Tenets in Science Instruction is included ML **Resources in Education** ,1995 **The Software Encyclopedia** ,1988 **Computerworld** ,1977-02-21 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

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