

Physical Science - Chapter 14 Review Sheet

- When does a force applied to an object not do any work? **When there is no displacement**
- What is the unit of work? **Joule**
- If you exert a force of 10.0 N to lift a box a distance of 0.75 m, how much work do you do? **7.5 J**
- If you perform 30 joules of work lifting a 20-N box from the floor to a shelf, how high is the shelf? **1.5 m**
- The SI unit of power is the **Watt**.
- If you exert a force of 500 N to walk 4 m up a flight of stairs in 4 s, how much power do you use? **500 W**
- A machine is a device that can multiply **Force**.
- When a machine does work, it can do all of the following EXCEPT
 - change the direction of a force.
 - increase a force and change the distance a force moves.
 - increase the distance a force moves and change the direction of a force.
 - increase a force and increase the distance a force moves.**
- If you know the input distance and output distance of a machine, which of the following can you calculate? **IMA**
- If you have to apply 30 N of force on a crowbar to lift an rock that weights 330 N, what is the actual mechanical advantage of the crowbar? **11**
- The efficiency of a machine is always less than 100 percent because **of friction**.
- A motor with an efficiency rating of 80 percent must supply 300 J of useful work. What amount of work must be supplied to the motor? **375 J**
- Which of the following is an example of a wheel and axle?

a. a doorknob	c. a jar lid
b. an automobile steering wheel	d. a pencil
- The rate at which work is done is called **power**.
- The force that is exerted on a machine is called the **input force**. **Output force**
- Besides a reduction in friction, the only way to increase the amount of work output of a machine is to **increase** the work input.
- The fulcrum is always between the effort force and the resistance force in a(an) **first**-class lever.
- The bottle opener shown in the figure is a(an) **second**-class lever.
- Compare the size and direction of the input and output forces shown in the figure to the right. **Same direction, output force is greater**
- The ideal mechanical advantage of a third-class lever is always **less** than 1.
- If you grease a ramp to make a box slide more easily, what happens to the ramp's mechanical advantage? **increases**
- If a simple machine could be frictionless, how would its IMA and AMA compare? **equal**
- How does friction affect the calculation of the IMA of a simple machine? **it doesn't**
- The input force of a pulley system must move 6.0 m to lift a 3000-N engine a distance of 0.50 m. What is the IMA of the system? **12**
- A force of 12 N is applied to the handle of a screwdriver being used to pry off the lid of a paint can. As the force moves through a distance 0.3 m, the screwdriver does 32 J of work on the lid. What is the efficiency of the screwdriver? **BAD QUESTION**
- What is the IMA of the ramp in the figure at the right? **3**



Physical Science Chapter 14 Assessment Answers

J. M. Cairo



Physical Science Chapter 14 Assessment Answers:

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,2008 **Climate Change 2013 - The Physical Science Basis** Intergovernmental Panel on Climate Change (IPCC),2014-03-24 This Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard scientific reference for all those concerned with climate change and its consequences including students and researchers in environmental science meteorology climatology biology ecology and atmospheric chemistry It provides invaluable material for decision makers and stakeholders at international national and local level in government businesses and NGOs This volume provides An authoritative and unbiased overview of the physical science basis of climate change A more extensive assessment of changes observed throughout the climate system than ever before New dedicated chapters on sea level change biogeochemical cycles clouds and aerosols and regional climate phenomena Extensive coverage of model projections both near term and long term climate projections A detailed assessment of climate change observations modelling and attribution for every continent A new comprehensive atlas of global and regional climate projections for 35 regions of the world **PISA Science 2006** Rodger W. Bybee,Barry McCrae,2009 Comprehensive thought provoking and indispensable PISA Science 2006 provides educators with a top down view of where we stand today in science education and what this means for students and educators **Global Issues and Innovative Solutions in Healthcare, Culture, and the Environment** Merviö, Mika,2020-06-12 Despite the development of environmental initiatives healthcare and cultural assimilation in today s global market significant problems in these areas remain throughout various regions of the world As

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Environmental Science Michael L. McKinney, Robert M. Schoch, Logan Yonavjak, 2007 The Critical Importance Of Environmental Preservation Is Apparent To Everyone The Issues Facing Us Today Be They Global Warming The Depleting Ozone Layer The Controversy Over Nuclear Power Or The Continuing Problems Of Water Pollution And Solid Waste Disposal Are Headline News Environmental Science Systems And Solutions Fourth Edition Offers The Basic Principles Necessary To Understand And Address These Multi Faceted And Often Very Complex Current Environmental Concerns The Book Provides A Comprehensive Overview And Synthesis Of Environmental Science And Provides The Basic Factual Data Necessary To Understand The Environment As It Is Today It Is Important That Students Understand How Various Aspects Of The Natural Environment Interconnect With Each Other And With Human Society Using A Systems Approach The Authors Have Organized Complex Information In A Way That Highlights These Connections In A Fair And Unbiased Fashion A Study Guide Is Incorporated At The End Of Each Chapter To Help Reinforce Concepts And Provide A Clear Overview Of Material

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