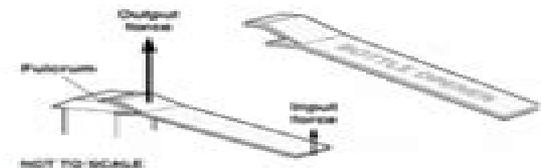


**Physical Science - Chapter 14 Review Sheet**

- 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 300 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. <b>a doorknob</b>	c. a jar lid
b. <b>an automobile steering wheel</b>	d. a pencil
- The rate at which work is done is called \_\_\_\_\_, **power**
- The force that is exerted on a machine is called the \_\_\_\_\_ force. **Output force**
- Besides a reduction in friction, the only way to increase the amount of work output of a machine is to \_\_\_\_\_ the work input. **increase**
- The fulcrum is always between the effort force and the resistance force in a(an) \_\_\_\_\_-class lever. **first**
- The bottle opener shown in the figure is a(an) \_\_\_\_\_-class lever. **2nd**
- 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 \_\_\_\_\_ than 1. **less**
- 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 Answers

**Kaplan Nursing**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle positioned behind the bar's end.

## Physical Science Chapter Answers:

**Answer Book** National Geographic Society (U.S.),2009 Covers everything from earth sciences to astronomy from climate and habitats to human arts and cultures from ancient history to cutting edge technology and descriptions flags and statistics of all the countries in the world **National Geographic Answer Book** National Geographic,2015 This far reaching reference is designed with many entry points and a visually engaging format to satisfy the curious browser the student researcher and the earnest knowledge seeker alike *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science* ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction *Cliffsnotes Tasc Test Assessing Secondary Completion(tm) Cram Plan* Tim Collins,Timothy G. Collins,2015 CliffsNotes TASC Cram Plan provides calendarized test prep for the TASC which is a high school graduation equivalency test similar to the GED

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*Young Scientist Series ICSE Physics 6*,     The Chemical News and Journal of Physical Science, 1913     **TExES 191 Generalist EC-6 (191)** Luis A. Rosado, 2009-12 Titled REA's testware for the TExEs 191 generalist EC 6 the accompanying CD ROM includes 2 full length practice exams

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