

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. 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) **2nd**-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**



Science Review Forces Section 1 Answer Key

Peipei Pang



Science Review Forces Section 1 Answer Key:

Discovering Science Through Inquiry: Forces and Motion Kit Kelli Allen, 2009-11-10 The Discovering Science through Inquiry series provides teachers and students of grades 3-8 with direction for hands-on science exploration around particular science topics and focuses. The series follows the 5E model: engage, explore, explain, elaborate, evaluate. The Forces and Motion kit provides a complete inquiry model to explore the laws of motion through supported investigation. Watch as students design a safe landing parachute to observe how the forces of deceleration work on parachutes. Forces and Motion kit includes 16 Inquiry Cards in print and digital formats, Teacher's Guide, Inquiry Handbook. Each kit includes a single copy; additional copies can be ordered. Digital resources include PDFs of activities and additional teacher resources including images and assessment tools, leveled background pages for students, and video clips to support both students and teachers. **Air University Library Index to Military Periodicals**, 1992 **Applied Mechanics Reviews**, 1974 **Scientific and Technical Aerospace Reports**, 1992 Research in Education, 1971 *Resources in Education*, 1999 **United States Code** United States, 2018 *Academy; a Weekly Review of Literature, Learning, Science and Art*, 1886 The Poetical gazette, the official organ of the Poetry society and a review of poetical affairs, nos. 4-7 issued as supplements to the Academy, v. 79 Oct 15, Nov 5, Dec 3, and 31, 1910 **Exploring Microeconomics, 6th Edition** Robert L. Sexton, Colin C. Kovacs, Peter N. Fortura, 2023-01-20 Exploring Microeconomics Sixth Canadian Edition offers students a lively approach designed to take the intimidation out of economics. With its short, self-contained learning units and its carefully chosen pedagogy, graphs, and photos, this text helps students master and retain the basic principles of economics. In addition, the current events focus and modular format of presenting information makes Exploring Microeconomics very student accessible and user friendly. Robert Sexton's section-by-section approach is designed to encourage economic literacy and helps students appreciate how economics impacts both business and daily life. Sexton helps students build a solid understanding of economic principles by engaging them from the outset and providing them with multiple points of practice. Air University Review, 1981-09 United States Code, *The Japan Science Review*, 1968 *Resources for Teaching Middle School Science* Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age-appropriate inquiry-centered curriculum materials and sound teaching practices, middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them. Resources for Teaching Middle School Science developed by the National Science Resources Center (NSRC) is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8. The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards. This completely new guide follows on the success of Resources for Teaching Elementary School Science, the first in the NSRC series of annotated guides to hands-on inquiry-centered curriculum materials and other resources for

science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind *Resources for Teaching Middle School Science* will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents Merrill Earth Science Ralph M. Feather, Susan Leach Snyder, Dale T. Hesser, 1995 *Cliffsnotes GED Cram Plan* Murray Shukyn, Dale Edwin Shuttleworth, Achim K. Krull, 2014-11-25 Provides advice for individuals with two months one month or one week to prepare for the GED test on how to study and offers a diagnostic text reviews of the five subject areas a practice test in each area and tips on reading comprehension **McDougal Littell Science** McDougal Littell Incorporated, 2005 **Military Review** , 2005 **Technical Abstract Bulletin** , 1965 **Commerce Business Daily** , 1998-03 **Holt Chemistry** Ralph Thomas Myers, 2004

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