

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 Answer Key Rng Chapter 14

G Orfield



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Science Explorer Physical Science Michael J. Padilla, Ioannis Miaculis, Martha Cyr, *Chemical News and Journal of Physical Science*, 1907 **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 *The Chemical News and Journal of Physical Science*, 1907 *Holt Physical Science* Mapi M. Cuevas, 1994 *Key-words-in-context Title Index*, 1962
El-Hi Textbooks & Serials in Print, 2003, 2003 *Harcourt Science: Physical science [grade] 6, units E and F, teacher's ed*, 2000 **Climate Change 2013: The Physical Science Basis** Intergovernmental panel on climate change. Working group 1, 2014 The report also provides a comprehensive assessment of past and future sea level change in a dedicated chapter *Nuclear Science Abstracts*, 1974 *Physics for the Inquiring Mind* Eric M. Rogers, 2011-04-17 In our scientific age an understanding of physics is part of a liberal education Lawyers bankers governors business heads administrators all wise educated people need a lasting understanding of physics so that they can enjoy those contacts with science and scientists that are part of our civilization both materially and intellectually They need knowledge and understanding instead of the feelings all too common that physics is dark and mysterious and that physicists are a strange people with incomprehensible interests Such a sense of understanding science and scientists can be gained neither from sermons on the beauty of science nor from the rigorous courses that colleges have offered for generations when the headache clears away it leaves little but a confused sense of mystery Nor is the need met by survey courses that offer a smorgasbord of tidbit they give science a bad name as a compendium of information or formulas The non scientist needs a course of study that enables him to learn real science and make its own with delight For lasting benefits the intelligent non scientist needs a course of study that enables him to learn genuine science carefully and then encourages him to think about it and use it He needs a carefully selected framework of topics not so many that learning becomes superficial and hurried not so few that he misses the connected nature of scientific work and thinking He must see how scientific knowledge is built up by building some scientific knowledge of his own by reading and discussing and if possible by doing experiments himself He must think his own way through some scientific arguments He must form his own opinion with guidance concerning the parts played by experiment and theory and he must be shown how to develop a taste for good theory He must see several varieties of scientific method at work And above all he must think about science for himself and enjoy that These are the things that this book encourages readers to gain by their own study and thinking *Physics for the Inquiring Mind* is a book for the inquiring mind of students in college and for other readers who want to grow in scientific wisdom who want to know what physics

really is Saturday Review ,1864 First International Conference on Optical Communications and Networks (ICOON 2002) Cambyse Guy Omidyar,H. Ghafouri-Shiraz,W. D. Zhong,2002 Optical communications networks are becoming increasingly important as there is demand for high capacity links Dense wavelength division multiplexing DWDM is widely deployed at the core networks to accommodate high capacity transport systems Optical components such as optical amplifiers tunable filters transceivers termination devices and add drop multiplexers are becoming more reliable and affordable Access and metropolitan area networks are increasingly built with optical technologies to overcome the electronic bottleneck at network edges New components and subsystems for very high speed optical networks offer new design options The proceedings of the First International Conference on Optical Communications and Networks present high quality recent research results in the areas of optical communications network components architectures protocols planning design management and operation Scientific and Technical Aerospace Reports ,1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database A Standard Dictionary of the English Language Isaac Kaufman Funk,Francis Andrew March,1897 *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 The Saturday Review of Politics, Literature, Science and Art ,1862 *Christian Science Sentinel* ,1920 **Therapeutic Modalities** Kenneth L. Knight,David O. Draper,2008 This user friendly text written in a clear and friendly manner by leading experts in the field is intended primarily for undergraduate athletic training students It encourages students to understand both the how and the why of therapeutic modality use so readers become thinking decision making professionals It provides the knowledge needed to evaluate and select the most appropriate modality All major modalities used to treat orthopedic injury and pain are covered from electrotherapy to therapeutic heat and cold to therapeutic massage From Additive Manufacturing to 3D/4D Printing 1 Jean-Claude André,2017-10-30 In 1984 additive manufacturing represented a new methodology for manipulating matter consisting of harnessing materials and or energy to

create three dimensional physical objects Today additive manufacturing technologies represent a market of around 5 billion euros per year with an annual growth between 20 and 30% Different processes materials and dimensions from nanometer to decameter within additive manufacturing techniques have led to 70 000 publications on this topic and to several thousand patents with applications as wide ranging as domestic uses Volume 1 of this series of books presents these different technologies with illustrative industrial examples In addition to the strengths of 3D methods this book also covers their weaknesses and the developments envisaged in terms of incremental innovations to overcome them

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