

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**



Physical Science Chapter 8 2 Review Answers

SA Dillow



Physical Science Chapter 8 2 Review Answers:

CliffsNotes HESI A2 Science Cram Plan Michael Reid, 2021-04-13 A study guide for the HESI A2 science nursing school test that calendarizes a study plan for test takers depending on how much time they have left before taking the test Get a plan and make the most of the time you have left Whether you have two months one month or one week left before the exam you can turn to the experts at CliffsNotes for a trusted and achievable cram plan to ace the HESI A2 Science without ever breaking a sweat First you will determine exactly how much time you have left to prepare for the exam Then you will turn to the two month one month or one week cram plan for week by week and day by day schedules of the best way to focus your study according to your unique timeline Each stand alone plan includes Diagnostic tests help you pinpoint your strengths and weaknesses so you can focus your review on the topics in which you need the most help Subject areas review of material you should know for the exam biology chemistry anatomy and physiology and physics Practice exams with answers and detailed explanations *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 The Best Test Preparation for the COOP (Cooperative Admissions Examination) & HSPT (High School Placement Test) Anita Price Davis, 2001-07-24 REA Real review Real practice Real results REA's COOP and HSPT Catholic and Private High School Entrance Exams Study Guides Are you prepared to excel on these state high stakes assessment exams Find out what you know and what you should know Use REA's advice and tips to ready yourself for proper study and practice Sharpen your knowledge and skills The book's full subject review refreshes knowledge and covers all topics on the official exams COOP Sequences Analogies Memory Verbal Reasoning Reading Comprehension Mathematics Concepts and Applications and Language Expression HSPT Verbal Skills Quantitative Skills Reading Mathematics and Language Skills Smart and friendly lessons reinforce necessary skills Key tutorials enhance specific abilities needed on the test Targeted drills increase comprehension and help organize study Color icons and graphics highlight important concepts and tasks Practice for real Create the closest experience to test day conditions with two full length practice tests one for each exam plus two more optional HSPT tests Chart your progress with detailed explanations of each answer Boost confidence with test taking strategies and focused drills Ideal for Classroom Family or Solo Test Preparation REA has helped generations of students study smart and excel on the important tests REA's study guides for state required exams are teacher recommended and written by experts who have mastered the test McGraw-Hill Education Preparation for the GED Test, Fourth Edition McGraw Hill Editores, México, 2021-03-19 Essential review and practice for all subject areas of the GED test This book covers all four subjects on the test Reasoning Through Language Arts RLA Social Studies Science and Mathematical Reasoning and provides intensive review and practice Pretests for each subject area will help you identify your strengths and weaknesses before starting your studies Learning objectives are based on the Common Core State Standards just like the real exam

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Doctor on Everest Peter Steele, 2005 Peter Steele had already spent several years trekking and working in the Himalayas when he reluctantly took the position of medical officer on the 1971 International Everest Expedition He expected it to be a hard climb what he didn t expect were the series of disasters that included a near epidemic a walk out and the death of a team member Struggling against bad weather hostile news reports and violent infighting the members still attempted to climb Everest via the treacherous never before attempted southwest face As much an expos of Steele s colorful climbing companions foreign and Sherpa as a chronology of the perilous day to day challenges of attempting a difficult new route on the world s highest mountain *Doctor on Everest* is a white knuckle ride into an extreme environment and a compelling look at the limits of human endurance

Succeeding in Your School Entrance Exams: A Comprehensive Guide Pasquale De Marco, 2025-04-23 This comprehensive guidebook is the ultimate resource for students preparing for the Scholastic Testing Service High School Placement Test HSPT and the Cooperative Entrance Examination COOP Whether you re aiming for admission to a prestigious private or parochial high school or seeking to strengthen your academic foundation for future endeavors this book will equip you with the knowledge strategies and confidence you need to excel Unparalleled Content Review Our team of expert educators has meticulously analyzed the content and structure of both exams to provide you with a thorough understanding of what to expect on test day From fundamental math concepts to intricate grammar rules from scientific principles to historical events we leave no stone unturned in our quest to equip you with the knowledge and skills necessary for triumph Proven Test Taking Strategies Beyond content mastery we recognize the importance of effective test taking strategies This book is replete with proven techniques to help you manage your time wisely tackle various question formats with confidence and overcome the anxiety that often accompanies standardized testing We provide invaluable insights into the minds of test writers revealing their patterns and tendencies so that you can anticipate their moves and outsmart the exams Abundant Practice Opportunities Practice makes perfect and this book provides an abundance of practice questions carefully designed to mirror the actual HSPT and COOP exams in terms of difficulty and format These practice questions are not mere repetitions they are opportunities for you to apply your

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Addison-Wesley Introduction to Physical Science Michael B. Leyden, 1988

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Dialogues Between Physics and Mathematics Mo-Lin Ge, Yang-Hui He, 2022-12-10 This volume celebrates the 100th birthday of Professor Chen Ning Frank Yang Nobel 1957 one of the giants of modern science and a living legend Starting with reminiscences of Yang's time at the research centre for theoretical physics at Stonybrook now named C N Yang Institute by his successor Peter van Nieuwenhuizen the book is a collection of articles by world renowned mathematicians and theoretical physicists This emphasizes the Dialogue Between Physics and Mathematics that has been a central theme of Professor Yang's contributions to contemporary science Fittingly the contributions to this volume range from experimental physics to pure mathematics via mathematical physics On the physics side the contributions are from Sir Anthony Leggett Nobel 2003 Jian Wei Pan Willis E Lamb Award 2018 Alexander Polyakov Breakthrough Prize 2013 Gerard t Hooft Nobel 1999 Frank Wilczek Nobel 2004 Qikun Xue Fritz London Prize 2020 and Zhongxian Zhao Bernd T

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