

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) **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**



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Primary Science Curriculum Guide John Stringer, 2013-06-17 This guide provides trainee teachers with an insight into the nature and teaching of primary science It aims to introduce you to the ways in which children learn science and to the science itself Each Unit can be studied independently or used to support prepare for school experiences You will be directed towards additional reading which will develop or confirm the subject knowledge

you will need to achieve QTS the curriculum guide is up to date revised to take account of Curriculum 2000 and accepted good practice in primary science teaching and learning It is also flexible many of the Units are stand alone They can be undertaken in any order at your own pace to complement school experiences The Units are practical and feasible the activities suggested can be undertaken by the non specialist in many cases without specialized equipment or access to large numbers of pupils The guide is comprehensive covering all the primary science elements in Curriculum 2000 and giving background information into other aspects of primary science teaching It is also supportive the guide suggests further texts to support trainees own understanding of the scientific and pedagogical concepts involved Additional reading draws on the TTA s list of approved key texts The original text was piloted by students following a distance learning PGCE course It has been revised and updated in line with their comments and to meet Curriculum 2000 and Curriculum Guidance for the Foundation Stage The text was initially developed as a core text for the part time distance learning course at Liverpool Hope and is designed for trainee teachers on distance learning and flexible routes returning converting or overseas teachers

Pediatric Nurse Practitioner Certification Review Guide JoAnne Silbert-Flagg,Elizabeth D. Sloand,2020-05-05 The Ultimate Learning Package to Prepare for the CPNP PC Exam Pediatric Nurse Practitioner Certification Review Guide is organized and condensed and focuses on important topics that will likely show up on boards This will serve as a great resource for our students as they prepare for clinical and also when preparing for boards Uyen Le Jenkins DNP Lecturer of Nursing Old Dominion University Pediatric Nurse Practitioner Certification Review Guide Primary Care Seventh Edition is an essential resource for nurses preparing for the PNP primary care certification exam offered by the Pediatric Nursing Certification Board PNCB Completely updated and revised it reflects the most current guidelines and standards of practice for the nurse practitioner in the pediatric primary care setting The Seventh Edition features expanded information on the promotion of breastfeeding in the first year of life new content about LGBTQIA issues and a new chapter providing comprehensive review of mental health information with sections covering bullying learning disabilities internalizing and externalizing disorders eating disorders and more Pediatric Nurse Practitioner Certification Review Guide Primary Care Seventh Edition provides access to Navigate 2 TestPrep An access code is included with every new print copy and unlocks access to practice and simulated tests detailed rationales and powerful data dashboards Standalone access to Navigate 2 TestPrep is also available ISBN 978 1 284 19316 9 Pediatric Nursing Clinical Practicum 2021 450 pages *Hands-On Physical Science* Laurie E. Westphal,2021-09-09 Hands On Physical Science immerses students in the world of real life chemists and physicists Through engaging authentic learning experiences students will engage in fascinating experiments while building STEM skills This book is packed with activities that can easily be conducted in the classroom using everyday materials and includes everything teachers need to help students think critically and problem solve as they explore the fascinating world of physical science From examining Newton s laws using sports video clips to studying energy through the

design and building of roller coasters students will not just learn about physical science they will be scientists Grades 6 8

Physics for Scientists and Engineers Student Solutions Manual David Mills,2007-05-18 The manual prepared by David Mills professor emeritus at the College of the Redwoods in California provides solutions for selected odd numbered end of chapter problems in the textbook and uses the same side by side format and level of detail as the Examples in the text

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 knowledge identify your strengths and weaknesses and refine your test taking skills Detailed answer explanations accompany each practice question ensuring that you not only learn from your mistakes but also gain a deeper understanding of the underlying concepts Clear and Engaging Writing Style With its clear and engaging writing style this book is accessible to students of all levels We believe that every student has the potential to succeed and we are committed to providing them with the tools and guidance they need to reach their full potential Whether you are a self motivated learner seeking to supplement your classroom studies or a student seeking personalized instruction this book is your ultimate resource for conquering the HSPT and COOP exams Unlock Your True Potential In the pages of this book you will embark on a transformative journey of learning and growth With dedication and perseverance you will not only master the content and strategies necessary for exam success but also develop the confidence and resilience that will serve you well throughout your academic career and beyond Seize this opportunity to unlock your true potential and take the first step towards achieving your educational aspirations If you like this book write a review on google books **Environmental Science** Michael L. McKinney,Robert M. Schoch,Logan Yonavjak,2007 The Critical Importance Of Environmental

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