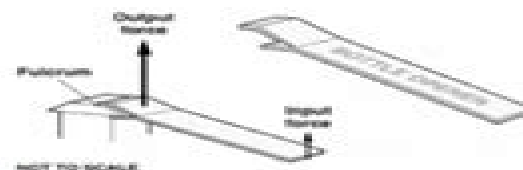


Physical Science - Chapter 14 Review Sheet

- 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**
- 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**



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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

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

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for the 14th Course of the International School of Subnuclear Physics The countries represented were Argentina Australia Austria Belgium Denmark the Federal Republic of Germany France the German Democratic Republic Greece Israel Italy Japan Mexico Nigeria Norway Sweden the United Kingdom the United States of America Vietnam and Yugoslavia The School was sponsored by the Italian Ministry of Public Education MPI the Italian Ministry of Scientific and Technological Research MRST the North Atlantic Treaty Organization NATO the Regional Sicilian Government ERS and the Weizmann Institute of Science The program of the School was mainly devoted to the elucidation and discussion of the progress achieved in the theoretical and experimental understanding of the fundamental constituents of matter On the theoretical front we had a series of remarkable lecturers C N Yang S Weinberg G C Wick attempting a description of finite size particles Another group of lecturers covered such topics as the understanding of the new particles H J Lipkin whether or not jets really exist E Lillethun and the unexpected A dependence of massive dileptons produced in high energy proton nucleus collisions J W Cronin Two other outstanding questions were covered by E Leader and G Preparata respectively whether strong interactions are still within the Regge framework and if it is really possible to master strong interactions A J S

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Argument-Driven Inquiry in Physical Science Jonathon Grooms,Patrick J. Enderle,Todd Hutner,Ashley Murphy,Victor Sampson ,2016-10-01 Are you interested in using argument driven inquiry for middle school lab instruction but just aren t sure how to do it Argument Driven Inquiry in Physical Science will provide you with both the information and instructional materials you need to start using this method right away The book is a one stop source of expertise advice and investigations to help physical science students work the way scientists do The book is divided into two basic parts 1 An introduction to the stages of argument driven inquiry from question identification data analysis and argument development and evaluation to double blind peer review and report revision 2 A well organized series of 22 field tested labs designed to be much more authentic for instruction than traditional laboratory activities The labs cover four core ideas in physical science matter motion and forces energy and waves Students dig into important content and learn scientific practices as they figure out everything from how thermal energy works to what could make an action figure jump higher The authors are veteran teachers who know your time constraints so they designed the book with easy to use reproducible student pages teacher notes and checkout questions The labs also support today s standards and will help your students learn the core ideas crosscutting concepts and scientific practices found in the Next Generation Science Standards In addition the authors offer ways for students to develop the disciplinary skills outlined in the Common Core State Standards Many of today s middle school teachers like you want to find new ways to engage students in scientific practices and help students learn more from lab activities Argument Driven Inquiry in Physical Science does all of this while also giving students the chance to practice reading writing speaking and using math in the context of science

Neuropsychology of Space

Albert Postma,Ineke J. M. van der Ham,2016-09-19 The Neuropsychology of Space Spatial Functions of the Human Brain summarizes recent research findings related to understanding the brain mechanisms involved in spatial reasoning factors that adversely impact spatial reasoning and the clinical implications of rehabilitating people who have experienced trauma affecting spatial reasoning This book will appeal to cognitive psychologists neuropsychologists and clinical psychologists Spatial information processing is central to many aspects of cognitive psychology including perception attention motor action memory reasoning and communication Any behavioural task involves mentally computing spaces mechanics and timing and many mental tasks may require thinking about these aspects as well e g imaging the route to a destination Discusses how spatial processing is central to perception attention memory reasoning and communication Identifies the brain architecture and processes involved in spatial processing Describes theories of spatial processing and how empirical evidence support or refute theories Includes case studies of neuropsychological disorders to better illustrate theoretical concepts Provides an

applied perspective of how spatial perception acts in the real world Contains rehabilitation possibilities for spatial function loss Science Tests and Reviews Buros Center,1975 Science Tests and Reviews consisting of science sections of the first seven MMYs and Tests in Print II includes 217 original test reviews written by 81 specialists 18 excerpted test reviews 270 references on the construction use and validity of specific tests a bibliography on in print science tests references for specific tests cumulative name indexes for specific tests with references a publishers directory title index name index and a scanning index The 97 tests covered fall into the following categories 23 general 14 biology 35 chemistry 3 geology 6 miscellaneous and 16 physics Harcourt Science: Physical science, [grade] 5, Units E and F, teacher's ed ,2000 *Focus on physical science* Charles H. Heimler,1989 **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 Federal Register ,1985-08-26

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