

## 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. <b>a doorknob</b>	c. a jar lid
b. <b>an automobile steering wheel</b>	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**



# Pearson Physical Science Chapter Review Answers

**Daniel Memmert**



## **Pearson Physical Science Chapter Review Answers:**

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**Physical Science Teacher's Desk Reference** Prentice-Hall Staff,1993 Artificial Intelligence and Machine Learning in Sports Science Daniel Memmert,2025-08-22 This professional book is one of the first book publications providing a comprehensive overview of how artificial intelligence AI and machine learning ML are used in the context of sports science research and sports practice In addition to the basics of AI and ML various applications are described including self learning algorithms for analyzing athletes movement patterns and intelligent wearables that provide real time data By integrating big data game results fitness parameters and individual performance can be analyzed in detail leading to new developments in research There are many opportunities for future research activities e g performance analysis to prevent injuries and personalized training methods More than 25 experts help to cover a wide range of topics related to AI and ML and concisely summarize the latest state of research Various topics are clustered in overarching book sections including general basics metrics in team sports metrics in individual sports and applications in sports science An outlook also addresses ethical issues concerning the use of AI and ML in sport and their responsible application Overall professionals and researchers in the fields of sports informatics sports technology exercise science and sports medicine are provided with a comprehensive reference work with practical examples of an innovative field of research 273 technical questions and answers for job interview Offshore Oil & Gas Platforms PETROGAV INTERNATIONAL, This book offers you a brief but very involved look into the operations in the exploitation of Oil Gas wells that will help you to be prepared for job

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*The American Psychiatric Publishing Board Review Guide for Psychiatry* Philip R. Muskin, Anna L. Dickerman, 2016-04-13 Psychiatrists and residents are faced with the important but what may feel overwhelming task of refreshing their knowledge of the whole of psychiatric practice typically while remaining engaged in full time clinical activity Psychiatrists will find the logical structure substantive questions and thorough explanations provided by the Study Guide for the Psychiatry Board Examination to be as reassuring as they are educational Although readers are advised to consult a range of resources in preparation for the examination this guide is indispensable It is the first and only guide to reflect the revisions contained in DSM 5 and it will ably assume a primary role in the study and review process The guide is designed for maximum usefulness with specific features and attributes to support knowledge recall and successful examination performance The authors are from a cross section of accomplished students fellows and junior and senior faculty all of whom have faced or will face the board examination and who understand its importance to the profession Topics were determined by the American Board of Psychiatry and Neurology Certification Examination in Psychiatry 2015 Content Blueprint The approximately 400 questions were formulated from information extracted from widely available American Psychiatric Publishing textbooks and accurately reflect the accepted psychiatric knowledge base Each multiple choice question is followed by an explanation of why the correct answer is correct and the others are incorrect and every question and explanation is referenced directing the reader to the primary material for more in depth learning and study The volume was designed as a study guide for both the initial psychiatry board examination and the recertification examination The process of working through the study guide will allow the reader to identify areas of strength and weakness initiate further study and test and retest knowledge ultimately preparing for the examination s rigors Only the Study Guide for the Psychiatry Board Examination offers support for the new DSM 5 compatible examination and that alone renders it essential

**Practice Book: Conceptual Physical Science** Paul G. Hewitt, John Suchocki, Leslie A. Hewitt, 2003-07 This skill building workbook helps students build their confidence and understanding of concepts in the textbook Answers to all questions are provided at the back of the workbook

**Christian Literature and Review of the Churches** ,1894

**Physical Science Ecology of the Earth** Prentice-Hall Staff, 1993

**Alters & Schiff Essential**

**Concepts for Healthy Living** Jeff Housman, Mary Odum, 2022-02-15 Every new print copy includes Navigate Advantage access that unlocks a comprehensive and interactive eBook workbook in writable PDF format animations student practice activities weblinks and learning analytics reporting tools Now in its ninth edition Alters Schiff Essential Concepts for Healthy Living provides students with all the information they need to know to make informed health decisions and embrace a healthy lifestyle The authors combine evidence based information with critical thinking activities to guide students toward healthy living through analysis of their own health behavior The Ninth Edition is updated with the latest topics and issues related to sexuality gender and culture community violence consumer health and much more Through active use of the text students will gain a solid understanding of major concepts of healthy living that can be applied to their personal lives as well as future health related careers Includes NEW updated information on the stressors related to COVID and politics Incorporates new goals for the new Healthy People 2030 initiative Includes updated substance abuse data among teens and college age students as well as laws related to the legalized use of marijuana Provides the latest Dietary Guidelines for Americans 2020-2025 Includes a new section on emerging viruses with information about the viruses that cause SARS MERS and COVID 19 2023 620 pages

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for DC Motor Using an Optimal ... by AI Tajudin · 2022 · Cited by 1 — Abstract—The project purpose to implement Artificial Bee Colony (ABC) algorithm optimization technique for controlling the speed of the DC motor. (PDF) A response time reduction for DC motor controller ... This paper proposes an alternative solution to maximize optimization for a controller-based DC motor. The novel methodology relies on merge proper tuning with ... Modelling and Simulation for Industrial DC Motor Using ... by AAA Emhemed · 2012 · Cited by 61 — The main objective of this paper illustrates how the speed of the DC motor can be controlled using different controllers. The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ...