

**Bryan-Science 8**  
**Homework assignment – Answer key**

**Energy Calculations Worksheet**

1. A shot putter heaves a 7.26kg shot with a final velocity of 7.5m/s. What is the kinetic energy of the shot?

$$E_k = \frac{1}{2} \cdot m \cdot v^2$$

$$E_k = \frac{1}{2} \cdot 7.26\text{kg} \cdot (7.5\text{m/s})^2$$

$$E_k = 204.18 \text{ J}$$

2. What is the final velocity of a 5700kg truck, if 2 200 000J of energy is used to accelerate it?

$$E_k = \frac{1}{2} \cdot m \cdot v^2$$

$$2200000 = \frac{1}{2} \cdot 5700 \text{ kg} \cdot v^2$$

$$2200000 = 2850 \cdot v^2$$

$$2200000/2850 = v^2$$

$$v^2 = 771.93$$

$$v = 27.78\text{m/s}$$

3. A 2kg textbook is lifted from the floor to a shelf 2.10m above the floor.

- (a) What is the gravitational potential energy of the book relative to the floor?

$$E_p = m \cdot g \cdot h$$

$$E_p = 2 \text{ kg} \cdot 9.8\text{m/s}^2 \cdot 2.1\text{m}$$

$$E_p = 19.6 \cdot 2.1$$

$$E_p = 41.16 \text{ J}$$

- (b) What is its gravitational potential energy relative to the head of a 1.65m tall person?

$$E_p = m \cdot g \cdot h$$

$$E_p = 2 \text{ kg} \cdot 9.8\text{m/s}^2 \cdot 1.65\text{m}$$

$$E_p = 2 \cdot 16.17$$

$$E_p = 32.34 \text{ J}$$

4. A bike rider approaches a hill with a speed of 8.5m/s. The total mass of the rider and the bike is 85kg.

- (a) Find the kinetic energy of the bike and rider.

$$E_k = \frac{1}{2} \cdot m \cdot v^2$$

$$E_k = \frac{1}{2} \cdot 85 \text{ kg} \cdot 8.5^2 \text{ m/s}$$

$$E_k = 32.5 \cdot (8.5\text{m/s})^2$$

$$E_k = 3070.63 \text{ J}$$

- (b) The rider coasts up the hill. Assuming there is no friction, at what height will the bike come to a stop?

$$3070.63 = 85 \text{ kg} \cdot 9.8\text{m/s}^2 \cdot h$$

$$3070.63 = 833 \cdot h$$

$$3070.63/833 = h$$

$$h = 3.69\text{m}$$

# 233 Physical Science Worksheet

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### 233 Physical Science Worksheet:

*Workbook for Radiologic Science for Technologists - E-Book* Elizabeth Shields, Stewart C. Bushong, 2012-06-22 Sharpen your radiographic skills and reinforce what you've learned in Bushong's Radiologic Science for Technologists 10th Edition. Corresponding to the chapters in the textbook, this workbook helps you learn by doing worksheets, crossword puzzles, and math exercises. A Math Tutor section helps you brush up on your math skills. You'll gain the scientific understanding and practical experience necessary to become an informed confident radiographer. In-depth coverage lets you review and apply all of the major concepts from the text. Over 100 worksheets make it easy to review specific topics and are numbered according to textbook chapter. Math Tutor exercises provide a great refresher for beginning students or extra practice with decimal and fractional timers, fraction decimal conversion, solving for desired mAs, and technique adjustments. Penguin boxes summarize relevant information from the textbook, making it easier to review major concepts and do worksheet exercises. New worksheets on digital radiographic technique and the digital image display provide an excellent review of the new textbook chapters. Closer correlation to the textbook simplifies your review.

**Enrichment Worksheets, Student Edition, for Use with Glencoe Physical Science** Aron Thompson, 1999     Resources in Education, 2001     **The Museum Manager's Compendium** John W. Jacobsen, 2017-09-22

The Museum Manager's Compendium 101 Essential Tools and Resources helps you make and implement your decisions as a museum manager and strategic planner. This book's 101 sections present a treasure trove of definitions, diagrams, processes, choices, and worksheets in major areas of museum management. Collectively, they reflect the literature and contributions of some of the field's best thinkers. The resources distill half a century of museum experience over hundreds of projects done by scores of talents and experts internationally for all types of museums. The Museum Manager's Compendium can be used as:

- A frequent reference book to consult when facing decisions or planning for the future.
- A source of examples and templates of common museum reports.
- A source of answers and options for strategic planning questions.
- A crib book to extract text when drafting internal proposals and plans.
- A primer when welcoming new partners and Board members.
- A quick study and refresher of key aspects of museum practice.
- An orientation to new staff.
- A glossary for building shared definition among team members.

The Museum Manager's Compendium is for museum professionals, leaders, managers, coordinators, professional counsel, contractors, evaluators, supporters, and policy makers to use often. It is a must-own reference book for every museum professional responsible for decisions and implementation.

Holt Science: Teacher's edition Joseph Abruscato, 1989     **Science Spectrum** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03     *Modern Science and the Book of Genesis* James William Skehan, National Science Teachers Association, 1986

Based on the premise that knowledge of evolutionary theory is essential for understanding the natural world, this document was designed to assist science teachers and others as they consider the issues that influence the teaching of evolution. The position is taken that there is no conflict between data and sound theories based on science and

religious beliefs based on the Bible Information and perspectives are presented under the topic headings of 1 The Genesis of Genesis 2 Early Science Interprets Genesis 3 New Data 4 Creationism versus Science and 5 Two Kinds of Knowledge References are listed and the National Science Teacher Association's position statement on the Inclusion of Nonscience Tenets in Science Instruction is included ML **Shellfish Culture, 1979-1986** Deborah T. Hanfman, 1987 *Quick Bibliography Series*, 1976 *A Guide to Undergraduate Science Course and Laboratory Improvements* National Science Foundation (U.S.). Directorate for Science Education, 1979 **Survey of Science History & Concepts Parent Lesson Plan**, 2013-08-01

Survey of Science History Concepts Course Description Students will study four areas of science Scientific Mathematics Physics Biology and Chemistry Students will gain an appreciation for how each subject has affected our lives and for the people God revealed wisdom to as they sought to understand Creation Each content area is thoroughly explored giving students a good foundation in each discipline Semester 1 Math and Physics Numbers surround us Just try to make it through a day without using any It's impossible telephone numbers calendars volume settings shoe sizes speed limits weights street numbers microwave timers TV channels and the list goes on and on The many advancements and branches of mathematics were developed through the centuries as people encountered problems and relied upon math to solve them It's amazing how ten simple digits can be used in an endless number of ways to benefit man The development of these ten digits and their many uses is the fascinating story in Exploring the World of Mathematics Physics is a branch of science that many people consider to be too complicated to understand John Hudson Tiner puts this myth to rest as he explains the fascinating world of physics in a way that students can comprehend Did you know that a feather and a lump of lead will fall at the same rate in a vacuum Learn about the history of physics from Aristotle to Galileo to Isaac Newton to the latest advances Discover how the laws of motion and gravity affect everything from the normal activities of everyday life to launching rockets into space Learn about the effects of inertia first hand during fun and informative experiments Exploring the World of Physics is a great tool for student who want to have a deeper understanding of the important and interesting ways that physics affects our lives Semester 2 Biology and Chemistry The field of biology focuses on living things from the smallest microscopic protozoa to the largest mammal In this book you will read and explore the life of plants insects spiders and other arachnids life in water reptiles birds and mammals highlighting God's amazing creation You will learn about biological classification how seeds spread around the world long term storage of energy how biologists learned how the stomach digested food the plant that gave George de Mestral the idea of Velcro and so much more For most of history biologists used the visible appearance of plants or animals to classify them They grouped plants or animals with similar looking features into families Starting in the 1990's biologists have extracted DNA and RNA from cells as a guide to how plants or animals should be grouped Like visual structures these reveal the underlying design of creation Exploring the World of Biology is a fascinating look at life from the smallest proteins and spores to the complex life systems of humans and animals Chemistry is an amazing

branch of science that affects us every day yet few people realize it or even give it much thought Without chemistry there would be nothing made of plastic there would be no rubber tires no tin cans no televisions no microwave ovens or something as simple as wax paper This book presents an exciting and intriguing tour through the realm of chemistry as each chapter unfolds with facts and stories about the discoveries of discoverers Find out why pure gold is not used for jewelry or coins Join Humphry Davy as he made many chemical discoveries and learn how they shortened his life See how people in the 1870s could jump over the top of the Washington Monument Exploring the World of Chemistry brings science to life and is a wonderful learning tool with many illustrations and biographical information

Research on e-Learning and ICT in Education Panagiotes Anastasiades,Nicholas Zaranis,2016-09-14 This book is an essential text for researchers and academics seeking the most comprehensive and up to date coverage of all aspects of e learning and ICT in education It provides expanded peer reviewed content from research presented at the 9th Panhellenic Conference on ICT in Education It focuses on providing original research on the most cutting edge e Learning technologies including CSCL ICT based learning ICT and instructional design serious games and game design virtual learning environments robotics in education ubiquitous learning distance learning digital literacies learning analytics social media in education and e assessment

**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

*Research in Education* ,1973

**Institutional Review Board** Elizabeth A. Bankert,Robert J. Amdur,2006 This comprehensive reference covers three separate areas related to IRBs administration daily management and ethical issues This instructional manual provides IRB members and administrators with the information they need to run an efficient and effective system of protecting human research subjects while remaining in compliance with federal research regulations The text includes case studies sample forms and sample policy documents The updated Second Edition includes seven new chapters IRB Closure of Study Files Internet Research Research in Public Schools Phase I Clinical Trials in Healthy Volunteers Vulnerability in Research Balancing the Risks and Potential Benefits and HIPAA

*LC21* National Research Council,Commission on Physical Sciences, Mathematics, and Applications,Computer Science and Telecommunications Board,Committee on an Information Technology Strategy for the Library of Congress,2001-01-23 Digital information and networks challenge the core practices of libraries archives and all organizations with intensive information management needs in many respects not only in terms of accommodating digital information and technology but also through the need to develop new economic and organizational models for managing information LC21 A Digital Strategy for the Library of Congress discusses these challenges and provides recommendations for moving forward at the Library of Congress

the world's largest library Topics covered in LC21 include digital collections digital preservation digital cataloging metadata strategic planning human resources and general management and budgetary issues The book identifies and elaborates upon a clear theme for the Library of Congress that is applicable more generally the digital age calls for much more collaboration and cooperation than in the past LC21 demonstrates that information intensive organizations will have to change in fundamental ways to survive and prosper in the digital age     *250 Everyday Science Activities* Dennis McKee, 1996 Simple activities that are easy to organize and fun to do encouraging children to investigate to explore to question and to learn by doing Seven sections each with activities and skills that will be addressed in the activities     Quarterly Journal of the Florida Academy of Sciences Florida Academy of Sciences, 1989     This Is Your Brain: Teaching About Neuroscience and Addiction Research Terra Nova Learning Systems, 2012 The need for students' understanding of the value of the neurosciences and the damaging effects of illicit drug use the mechanisms of addiction and the scientific and ethical basis of animal based drug abuse research is critical to creating a better future for our children from the Introduction This innovative middle school curriculum presents 10 comprehensive ready to use lessons about contemporary real world issues involved in drug use and abuse     **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1973

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