

Unit Test

Energy & Energy Transfer (For Physical Science)

Test Name: Physical Science - Energy & Energy Transfer

Version: A

Points Possible: 50

Student Name:

Date:

Part I: Multiple Choice (2 Points Per Question)

Question 1: You pick up a book and place it on a shelf. What type of energy does the book have after it is placed on the shelf?

- A. Mechanical Energy
- B. Gravitational Potential Energy
- C. Chemical Energy
- D. Electrical Energy

Question 2: Which of the following is the best definition for "energy"?

- A. The ability to do work
- B. The transfer of energy by a force
- C. The energy an object has due to its motion
- D. The rate of doing work

Question 3: Which of the following is the best definition for "power"?

- A. The transfer of energy by a force
- B. The ability to do work
- C. The energy an object has due to the motion of its molecules
- D. The rate of doing work

Question 4: Which of the following is the energy input for a lamp that is plugged into an electrical outlet?

- A. Electrical Energy
- B. Thermal Energy
- C. Chemical Energy
- D. Electromagnetic Energy

Question 5: Which of the following forms of energy results from the movement of electrically charged particles (current)?

- A. Thermal Energy
- B. Electrical Energy
- C. Electromagnetic Energy
- D. Elastic Energy

Part II: Calculations (2 Points Per Question)

Question 16: A bowling ball hits a stationary bowling pin with 21 N of force, moving the pin 1.4 meters. How much work was done? (Use the formula $W = Fd$). Be sure to show your work and include units.

Question 18: A car has a mass of 1,500 kg and is moving at a speed of 30 m/s. How much kinetic energy does it have? (Use the formula $KE = \frac{1}{2}mv^2$). Be sure to show your work and include units.

Part III: Fill in The Blank (2 Points Per Question)

Question 17: For each form of renewable energy below, name the energy input. Use the forms of energy listed in the chart below. You will use each one once.

_____ Solar Energy
_____ Geothermal Energy
_____ Wind Energy
_____ Biomass/Bioenergy

Word Bank

Mechanical Energy
Chemical Energy
Thermal Energy
Radiant Energy

Part IV: True/False (2 Points Per Question)

Question 19: Determine if each statement is true (T) or false (F).

- _____ When a ball is dropped, its total energy increases as it falls.
- _____ An energy-efficient device creates less energy, so heat.
- _____ Replacing dark-colored roofs with light-colored roofs can help reduce the urban heat island effect.
- _____ An object at rest will never have any form of energy.
- _____ Kinetic energy depends on both an object's mass and velocity squared.
- _____ Gravitational potential energy increases as an object is raised higher.
- _____ Friction causes some mechanical energy to be converted into thermal energy.
- _____ When a stretched rubber band is released, its kinetic energy is converted into potential energy.

- Covers forms of energy, energy transformations, work, renewable forms of energy, calculating work and kinetic energy, and more!
- Includes two versions and answer keys!
- Suitable for middle or high school physical science

Concept Review Energy Transfer Answer Key

Michael Rajnik

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Concept Review Energy Transfer Answer Key:

Modules, 2005 **Making Sense of Science: Energy** Kirsten R. Daehler, Jennifer Folsom, Mayumi Shinohara, 2011 This comprehensive professional development course for grades 6-8 science teachers provides all the necessary ingredients for building a scientific way of thinking in teachers and students focusing on science content inquiry and literacy. Teachers who participate in this course learn to facilitate hands-on science lessons, support evidence-based discussions, and develop students' academic language and reading and writing skills in science along with the habits of mind necessary for sense making and scientific reasoning. *Energy for Teachers of Grades 6-8* consists of five core sessions: Session 1: What is Energy; Session 2: Potential Energy; Session 3: Heat Energy; Session 4: Conservation of Energy; Session 5: Energy in Ecosystems. The materials include everything needed to effectively lead this course with ease: Facilitator Guide with extensive support materials and detailed procedures that allow staff developers to successfully lead a course; Teacher Book with teaching science and literacy investigations along with a follow-up component; Looking at Student Work designed to support ongoing professional learning communities; CD with black line masters of all handouts and charts to support group discussion and sense making; course participation certificates; student work samples and other materials that can be reproduced for use with teachers.

Harcourt Science: Physical science, [grade] 5, Units E and F, teacher's ed, 2000 **Concepts in Biology'** 2007 Ed. 2007 Edition, *Holt Chemistry* Ralph Thomas Myers, 2004 *Energy Conservation Update*, 1978

Fundamentals of Microbiology Jeffrey C. Pommerville, 2014-12 Ideal for health science and nursing students. *Fundamentals of Microbiology: Body Systems Edition*, Third Edition retains the engaging student-friendly style and active learning approach for which award-winning author and educator Jeffrey Pommerville is known. Highly suitable for non-science majors, the fully revised and updated third edition of this bestselling text contains new pedagogical elements and an established learning design format that improves comprehension and retention and makes learning more enjoyable. Unlike other texts in the field, *Fundamentals of Microbiology: Body Systems Edition* takes a global perspective on microbiology and infectious disease and supports students in self-evaluation and concept absorption. Furthermore, it includes real-life examples to help students understand the significance of a concept and its application in today's world, whether to their local community or beyond. New information pertinent to nursing and health sciences has been added, while many figures and tables have been updated, revised, and/or reorganized for clarity. Comprehensive yet accessible, the Third Edition is an essential text for non-science majors in health science and nursing programs taking an introductory microbiology course. Provided by publisher. [Engaging with Contemporary Challenges through Science Education Research](#) Olivia Levrini, Giulia Tasquier, Tamer G. Amin, Laura Branchetti, Mariana Levin, 2021-09-24 This book starts with the premise that beauty can be an engine of transformation and authentic engagement in an increasingly complex world. It presents an organized picture of highlights from the 13th European Science Education Research Association Conference ESERA 2019 held in Bologna, Italy.

The collection includes contributions that discuss contemporary issues such as climate change multiculturalism and the flourishing of new interdisciplinary areas of investigation including the application of cognitive neuroscience artificial intelligence and digital humanities to science education research It also highlights learners difficulties engaging with socio scientific issues in a digital and post truth era The volume demonstrates that deepening our understanding is the preferred way to address these challenges and that science education has a key role to play in this effort In particular the book advances the argument that the deep and novel character of these challenges requires a collective search for new narratives and languages an expanding knowledge base and new theoretical perspectives and methods of research The book provides a contemporary picture of science education research and looks to the theoretical and practical societal challenges of the future

Harcourt Science: Physical science, [grade] 4, Units E and F, teacher's ed. [v. 18]. Life science, [grade] 5, Units A and B, teacher's ed ,2000

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From publisher s description

Reviewing **Concept Review Energy Transfer Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Concept Review Energy Transfer Answer Key**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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