

Name: _____

Guided Notes: Kinetic Energy and Potential Energy

Objective: I can ____

VOCABULARY

Complete the chart with the definitions—IN YOUR OWN WORDS!

VOCABULARY word	DEFINITION
Kinetic Energy	The energy an object has due to its motion.
Potential Energy	The energy an object has due to its position; also the internal stored energy of an object, such as the energy stored in chemical bonds.
Gravitational Potential Energy	Potential energy that depends on the height of an object.
Elastic Potential Energy	Energy of stretched or compressed objects.

MAIN IDEAS

Kinetic Energy (pg. 15)

Kinetic Energy is the energy that an object possesses by being in motion. Examples of kinetic energy are all around us:

- A car moving down a road
- A runner participating in a race
- You turning a page in a book

Measured in **Joules (J)**.

Requires **motion**.

Factors Affecting Kinetic Energy (pg. 15)

The kinetic energy of an object depends on both **speed** and **mass**.

The faster an object moves, the more kinetic energy it has.

The more mass an object has, the more kinetic energy it has.

Calculating Kinetic Energy (pg. 16)

$$\text{Kinetic Energy} = (1/2) \times \text{Mass} \times (\text{Speed})^2$$

$$\text{Kinetic Energy} = (1/2) \times m \times (\text{m/s})^2$$

Potential Energy (pg. 17)

Photograph

Use the photograph to describe the direction you think the rock and ball are moving.

They are moving downward.
from the top left to bottom

Discussion

How do you know whether something has kinetic or potential energy?

If it's kinetic, it is moving; if it is potential it is not moving but has the potential to move.

Discussion

If an off-car pulls you over or gives you a ticket when your car has potential energy, or only when it has kinetic energy?

Physical Science Guided Study Energy Answer Key

Yi-Tong Ma

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.

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The Budget of the United States Government for the Fiscal Year Ending June 30 [1924]- United States. Bureau of the Budget,1954 *Message of the President of the United States Transmitting the Budget for the Service of the Fiscal Year Ending ...* United States,1954 *Energy and Water Development Appropriations for Fiscal Year 2009* United States. Congress. Senate. Committee on Appropriations. Subcommittee on Energy and Water Development,2009 **NBS Publications Newsletter** ,1964 A newsletter for librarians documentalists and science information specialists *HowExpert Guide to Science* HowExpert,2024-11-08 If you re ready to explore the world of science HowExpert Guide to Science is your essential resource covering everything from foundational principles to cutting edge innovations Designed for aspiring scientists students and curious minds this guide takes you on a journey through physics chemistry biology and beyond Focusing on key disciplines interdisciplinary connections ethics and practical knowledge this book offers insights tools and real world examples to truly understand science Chapter Highlights Introduction Discover science s role in everyday life and learn how to get the most from this guide Chapter 1 Foundations of Science Core principles the scientific method and the importance of hypotheses and theories Chapter 2 History of Science Major eras and groundbreaking discoveries that define modern science Chapter 3 Physics Matter energy mechanics thermodynamics and electromagnetism Chapter 4 Chemistry Matter s properties chemical reactions bonding and the periodic table Chapter 5 Biology Genetics evolution ecosystems and cellular biology Chapter 6 Earth Science Geology meteorology oceanography and environmental conservation Chapter 7 Astronomy Our solar system galaxies black holes and cosmology Chapter 8 Human Body Medical Science Human anatomy disease prevention and medical advances Chapter 9 Environmental Science Human impact on the planet sustainability and climate change Chapter 10 Mathematics in Science Math s role in research from probability to calculus Chapter 11 Social Sciences Psychology sociology and the science of human behavior Chapter 12 Technology Applied Sciences Engineering computer science and technological innovation Chapter 13 Data Science Research Research design data analysis and statistical significance Chapter 14 Cutting Edge Sciences Advances in nanotechnology AI quantum mechanics and genetic engineering Chapter 15 Interdisciplinary Science The impact of cross field collaboration and interdisciplinary research Chapter 16 Practical Applications Everyday science in technology health and the environment Chapter 17 Scientific Literacy Skills to evaluate scientific information and avoid misconceptions Chapter 18 Citizen Science How to participate in public science initiatives and projects Chapter 19 Philosophy Ethics of Science Ethical considerations and the role of scientists in

society Chapter 20 Science Communication Education Techniques for communicating science and inspiring future generations Chapter 21 Science Careers Explore career paths educational requirements and emerging roles in science Chapter 22 The Future of Science Emerging fields interdisciplinary research and future challenges Conclusion Summarizes key concepts inspires curiosity and reflects on science s impact Appendices Additional resources including a glossary recommended reading notable scientists hands on experiments and science events Why This Guide is Essential for Science Enthusiasts Comprehensive Learning Covers all major branches of science ideal for beginners and enthusiasts alike Practical Insights Real world applications examples and case studies deepen understanding Broad Perspective Connects scientific disciplines to reveal how science shapes our world Future Focused Highlights emerging fields and innovations offering a glimpse into science s future Start your journey with HowExpert Guide to Science and unlock a lifetime of discovery Whether deepening your knowledge or just beginning this guide opens doors to the wonders of science Dive in explore and let science reveal the mysteries of the universe HowExpert publishes how to guides on all topics from A to Z Focus on Physical Science California Edition Michael J. Padilla,2007 Chemist and Druggist ,1925 Resources for Teaching Middle School Science Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to

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