

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 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

**ML Yell**



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Nuclear Science Abstracts ,1976      *Readers' Guide to Periodical Literature* ,1917      Energy Research Abstracts ,1994  
*The Macmillan Guide to Correspondence Study* Modoc Press,1996      **Resources in Education** ,1999      *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration. Technical Information Center,1977  
*The Budget of the United States Government* United States. Bureau of the Budget,1954      **The Budget of the United States Government for the Fiscal Year Ending June 30 [1924]-** United States. Bureau of the Budget,1954      **Energy and Water Development Appropriations for Fiscal Year 2009** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Energy and Water Development,2009      **Message of the President of the United States Transmitting the Budget for the Service of the Fiscal Year Ending ...** United States,1954      **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 science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science

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