

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

**A Loxley**



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## **Table of Contents Physical Science Guided Study Energy Answer Key**

1. Understanding the eBook Physical Science Guided Study Energy Answer Key
  - The Rise of Digital Reading Physical Science Guided Study Energy Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Guided Study Energy Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physical Science Guided Study Energy Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Guided Study Energy Answer Key
  - Personalized Recommendations
  - Physical Science Guided Study Energy Answer Key User Reviews and Ratings
  - Physical Science Guided Study Energy Answer Key and Bestseller Lists
5. Accessing Physical Science Guided Study Energy Answer Key Free and Paid eBooks
  - Physical Science Guided Study Energy Answer Key Public Domain eBooks
  - Physical Science Guided Study Energy Answer Key eBook Subscription Services
  - Physical Science Guided Study Energy Answer Key Budget-Friendly Options
6. Navigating Physical Science Guided Study Energy Answer Key eBook Formats

- ePub, PDF, MOBI, and More
  - Physical Science Guided Study Energy Answer Key Compatibility with Devices
  - Physical Science Guided Study Energy Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Physical Science Guided Study Energy Answer Key
    - Highlighting and Note-Taking Physical Science Guided Study Energy Answer Key
    - Interactive Elements Physical Science Guided Study Energy Answer Key
  8. Staying Engaged with Physical Science Guided Study Energy Answer Key
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Physical Science Guided Study Energy Answer Key
  9. Balancing eBooks and Physical Books Physical Science Guided Study Energy Answer Key
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Physical Science Guided Study Energy Answer Key
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Physical Science Guided Study Energy Answer Key
    - Setting Reading Goals Physical Science Guided Study Energy Answer Key
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Physical Science Guided Study Energy Answer Key
    - Fact-Checking eBook Content of Physical Science Guided Study Energy Answer Key
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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