

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

Zhe Xu



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