

Work and Energy

Section 2 Describing Energy

Scan Section 2 to find at least four forms of energy.

Review Vocabulary

Define work to show its scientific meaning.

work

New Vocabulary

Read the definitions below. Then write the key term for each one in the left column.

the ability to do work

anything that you can imagine a boundary being around

energy a moving object has because of its motion

energy stored in an object

energy stored by thing that stretch or shrink

energy stored in chemical bonds

energy stored in objects because of their position above Earth's surface

Academic Vocabulary

Use a dictionary to define analogy.

analogy

Section 2 Describing Energy (continued)

Main Idea

Details

Change Requires Energy

I found this information on page _____.

Identify at least eight familiar items that consume energy. Group items by the form of energy they use.

Kinetic	Potential

Create an analogy to show how energy is like water.

Kinetic Energy

I found this information on page _____.

Complete the formula for the kinetic energy equation of a moving object. Use mass (kg), speed (m/s), and kinetic energy (joules) in your equation.

word equation:

_____ = $\left(\frac{1}{2}\right)$ _____ \times [_____]²

symbol equation:

Section 2 Describing Energy (continued)

Main Idea

Potential Energy

I found this information
on page _____.

Details

Analyze the types of potential energy being used by an athlete competing in each of these athletic events.

archery

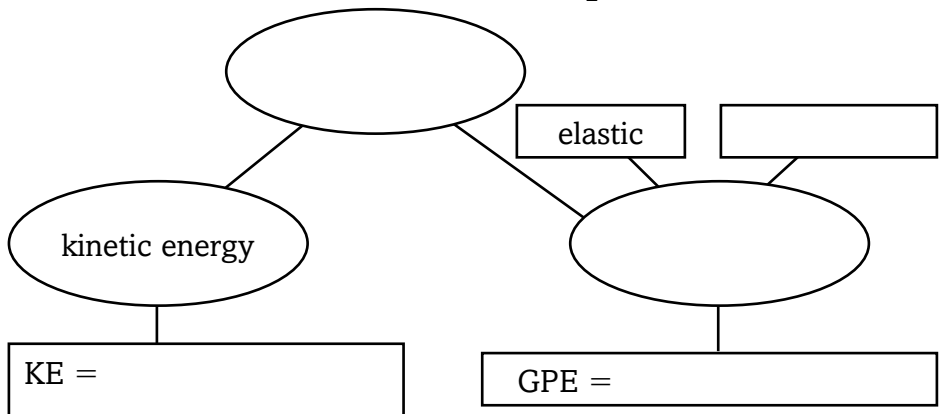
sprinting

platform diving

Complete the concept map by entering each term or phrase in the appropriate location.

- chemical
- energy
- gravitational

- mgh
- potential energy
- $\frac{1}{2} \text{ mass} \times \text{velocity}^2$



ANALYZE IT

Make an analogy comparing energy and money.
