



DIGITAL OPTIONS
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STUDY GUIDE

REVIEW STRATEGIES · CRITICAL THINKING

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Initials: _____

Scramble each italicized word, write it on the line, and do a word search.

Anything that can fall has *agaattilnrov* potential energy.
The law of *scnoreatvno* states that energy may change form, but it cannot be created or destroyed under ordinary conditions.
Energy stored in chemical bonds is *aeilmecch* energy.
Energy that is stored is called *tponelai* energy.
nikeict energy is energy in motion.
An object's total amount of potential and kinetic energy is *ccemhaanil* energy.
ticslea energy can stretch or compress.

Initials: _____

SECTION 3

Directions: Use your knowledge of energy to answer the questions below.

1. Write the equation for mechanical energy.

2. Explain in your own words the law of conservation of energy.

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SECTION 4

Directions: Using your knowledge of work and power, answer the questions below.

How is the dot due paddling a canoe doing work? How does the shape of the canoe make paddling easier?

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SECTION 5

Directions: Fill in the blanks below using your knowledge of machines.

A machine is _____

Two functions of a machine are _____

What is efficiency? _____

What are some examples of work made easier? _____

Initials: _____

Directions: On the line provided, define and write the meaning of each of the following terms.

1. mechanical advantage— _____
2. input force— _____
3. output force— _____

Initials: _____

SECTION 6

Directions: Answer the questions below and fill in the graphic organizer with five types of simple machines.

What is a simple machine? _____

What is a compound machine? _____

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Directions: Read each statement and then write the simple machine on the line that it best describes.

Column A

- _____ 1. Bar that is free to pivot around a fixed point
- _____ 2. Inclined plane wrapped in a spiral around a cylindrical post
- _____ 3. An inclined plane with one or two sloping sides
- _____ 4. Grooved wheel with a rope, chain, or cable running along the groove
- _____ 5. An axle attached to the center of a wheel, so they rotate together
- _____ 6. Sloping surface used to raise objects

Initials: _____

SECTION 7

Directions: Explain the difference between a fixed and moveable pulley. Then draw an example of each in the box provided.

Fixed Pulley	Moveable Pulley
	

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Directions: Draw a picture of each type of lever in the boxes provided.

First-Class Lever	Second-Class Lever	Third-Class Lever
		

Initials: _____



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graphic organizers

critical thinking

vocabulary building

theme connection

compare and contrast

matching

problem solving

fill-in-the-blank

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short answer

interpreting data

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