Sum It Up »

Use information in the summary to complete the graphic organizer.

Electrical appliances use electrical energy to do work and perform useful tasks. Some of these appliances, such as a flashlight or an MP3 player, get electricity from batteries. Others must be plugged into a wall socket. Electrical appliances convert electrical energy into other forms of energy, such as thermal energy, sound energy, and light energy. Many appliances, such as washing machines and fans, contain an electric motor, which converts electricity into the energy of motion. An electric current may also be used to make an electromagnet. Generators in energy stations produce electric current, which travels through wires to homes, schools, and businesses. It is important to conserve electricity because some of the resources energy stations use will eventually run out.

1 Main Idea: Electrical appliances use electrical energy to

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2 Detail: Some appliances work on batteries. Others must be

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3 Detail: Electrical appliances convert

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4 Detail: Conserving electricity is important because

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Brain Check

LESSON 5

Name _____

Vocabulary Review

1 Unscramble each of the clues to form a word or a phrase from the word bank. Copy each letter in a numbered cell to the cell below with the same number.

TECGARLOETNEM

RECLICTE ROOTM

TORRAGEEN

ONECREVS

REECUSROS

GANSEITMM

CICLETERTIY

This lesson is about

1	2	3	4	5	6	7	8	9	10	11

WORD BANK
conserve
electricity
electric motor
electromagnet
generator
magnetism
resources

Apply Concepts

2 Draw a common electrical appliance. Then explain how it changes electrical energy to other forms of energy and what kind of work it does.

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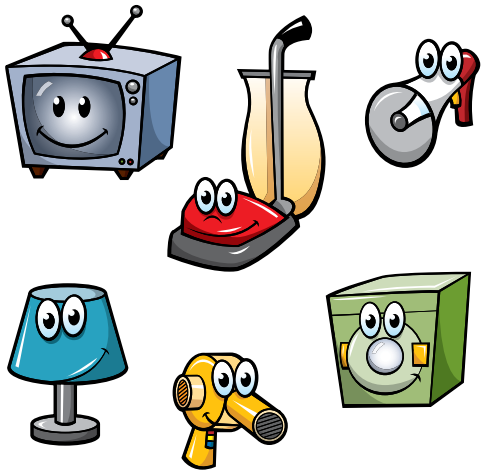
3 Draw an X over each appliance that changes electrical energy to mechanical energy.

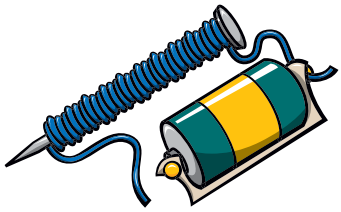
Circle each appliance that changes electrical energy to thermal energy.

Draw a square around each appliance that changes electrical energy to sound energy.

Draw a triangle around each appliance that changes electrical energy to light energy.



4 What is the device in this drawing called? What would happen if you put this device near a pile of iron nails? Why?



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5 A. What are some resources used to generate electricity in energy stations?

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B. Describe three ways that you can conserve electricity.

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Take It Home! Discuss with your family some specific ways that you could conserve electricity. You might talk about ways to use less electricity or about things you can do by hand rather than using an electrical appliance.