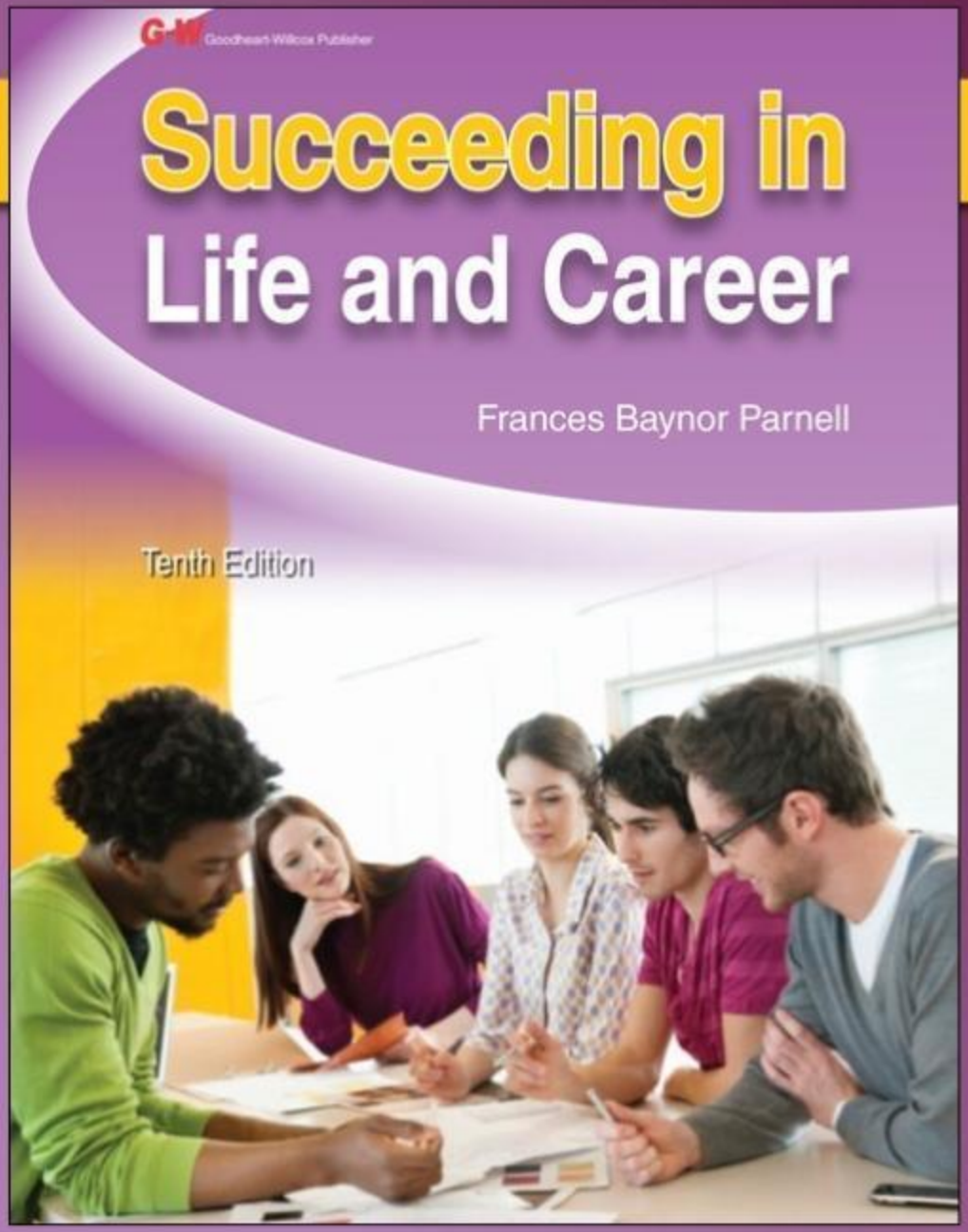

Presentations for PowerPoint

Succeeding in Life and Career

by Yvonne Gentzler

G-W PUBLISHER
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Tinley Park, Illinois

Chapter 5

Community and Environmental Responsibilities

Section 5-1

Citizenship

Objectives

- Explain the importance of being an informed citizen and exercising your right to vote.
- Describe the purpose of taxes.
- Consider why community involvement is important to individuals, especially teens.

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To Be Informed

- As a citizen, you have rights and responsibilities

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To Be Informed

- You have the responsibility
  - to be informed
  - to vote
  - to obey the law
  - to pay taxes
  - to be involved in your community

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To Be Informed

- Your right: To receive information about the world around you
- Your responsibility: To use the information to be an informed citizen

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To Vote

- Your right: To help choose your government leaders
- Your responsibility: To become informed on the issues and the candidates' views
- If you are at least 18 years old and a U.S. citizen, you may register to vote

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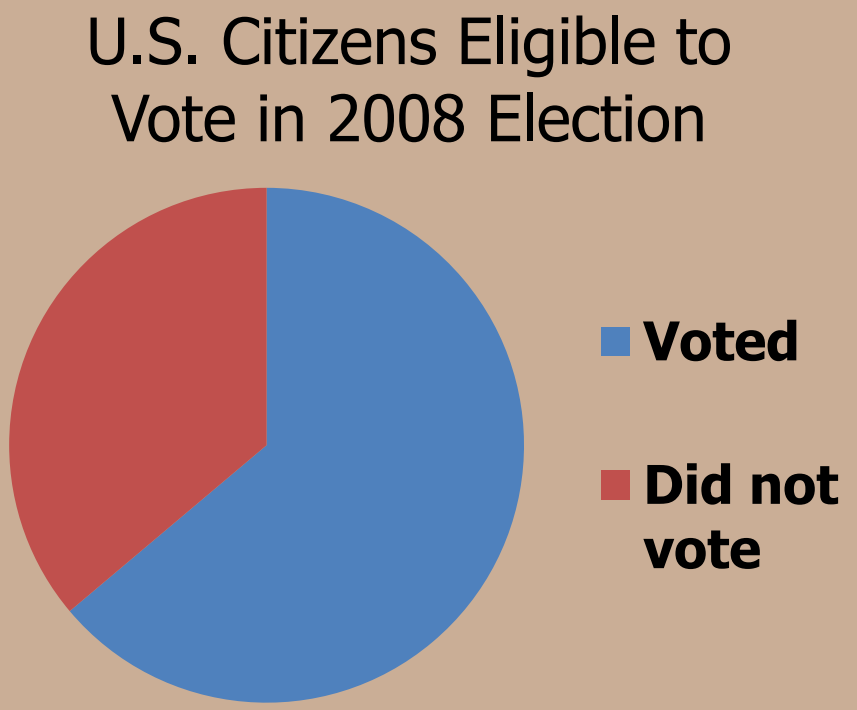
Did You Know?

- In the 2008 U.S. election,
  - 206 million people were eligible to vote
  - 146 million people registered to vote
  - 131 million people voted



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To Obey the Law

- Life would be chaos without laws
- Your right: To enjoy the benefits that laws provide
- Your responsibility: To obey laws that govern your behavior

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To Pay Taxes

- Federal, state, and local governments collect taxes
- Your right: To benefit from the services provided by tax dollars
- Your responsibility: To pay taxes

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Think Further

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- *What are the tax dollars collected by the government used for?*

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To Be Involved in Your Community

- **Volunteers** provide their time, talents, and energy free of charge
- Your right: To benefit from public services and nonprofit agencies
- Your responsibility: To become involved in the community by volunteering

continued

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To Be Involved in Your Community

- Benefits of volunteering include
  - learning more about your community
  - feeling good about making a contribution
  - perfecting skills and learning new ones
  - determining career interests
  - gaining experience and making job contacts

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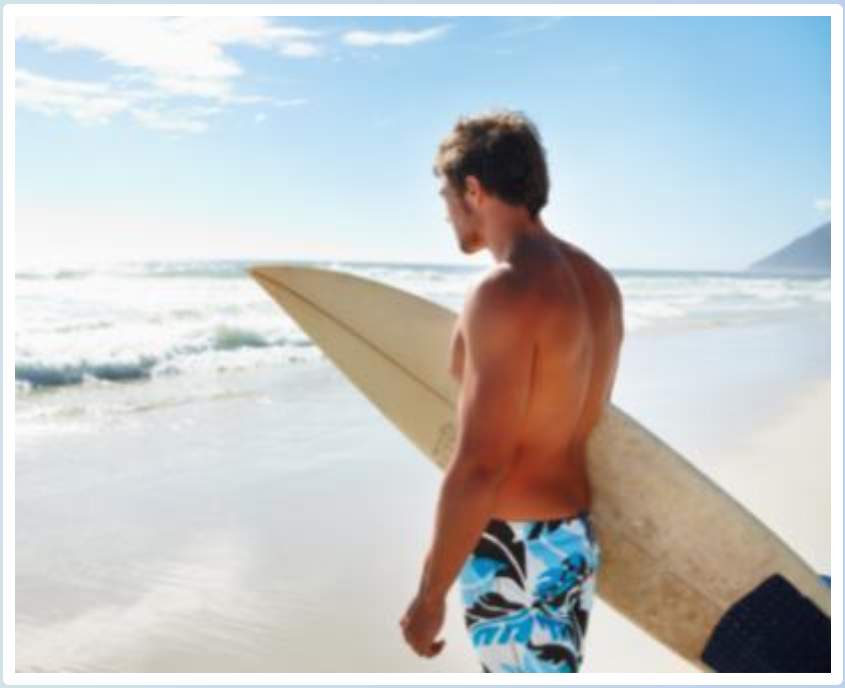
To Protect the Environment

- Your right: To live in a clean, healthy environment
- Your responsibility: To help keep your environment clean and healthy



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Section 5-1 Review

- Why do you need to be informed about factors that impact the economy?
  - *they can limit your ability to find a job and purchase goods and services*
- *True or false.* Voting is a right enjoyed by citizens in every country.
  - *false—people in many nations do not have the right to vote*

continued

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Section 5-1 Review

- List goods and services you use everyday that are funded by tax dollars.
  - *Answers will vary.*

- You are a citizen of a city, state, nation, and _____.
  - *world*

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Section 5-2

Caring for the Environment

Objectives

- Explain the importance of a healthful environment.
- Identify the causes of different types of pollution.
- Relate how pollution affects people's health.
- Discuss ways people can protect and build a healthful environment.

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A Healthful Environment

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- A *healthful environment*
  - promotes good physical and mental health
  - enables people to reach their goals

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A Healthful Environment

- Healthful environment characteristics
  - clean air
  - unpolluted water
  - rich soil
  - a continuing supply of natural resources
  - surroundings that provide privacy and recreation and support plants and animals

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Factors Affecting the Environment

- Two factors that play a role in the increase in environmental problems are
  - rapid population growth
  - shrinking natural resources

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Rapid Population Growth

- As the human population increases,
  - available living space for each person decreases
  - existing resources must be divided among more people
  - more waste is created

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Shrinking Natural Resources

- *Renewable resources* are replaced rapidly enough to provide a continuing supply
  - plants
  - animals
  - energy from the sun and wind
  - water

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Shrinking Natural Resources

- *Nonrenewable resources* are replaced very slowly and the supply is limited
  - **fossil fuels**, or oil, coal, and natural gas
  - minerals such as copper and gold

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Pollution

- **Pollution**, caused by *pollutants,* is all the harmful changes in the environment caused by human activities

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Air Pollution

- Pollutants can build up over time in the air
- Air pollution is linked to respiratory ailments
- The burning of fossil fuels creates airborne pollutants

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Air Pollution

- Chemical pollutants weaken the ozone layer which allows more solar radiation to reach the earth
- Electrical power plant and motor vehicle emissions can create *acid rain*, which can damage the environment, buildings, and other structures

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Water Pollution

- *Water pollution* is the accidental or careless addition of waste materials to
  - rivers
  - lakes
  - oceans
  - underground water supplies

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Water Pollution

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- Industrial wastes, sewage, and agricultural chemicals are the main causes of water pollution

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Noise Pollution

- *Noise pollution* is the excessive level of noise to which people are subject
- Noise pollution can lead to hearing loss

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Hazardous Waste

- **Hazardous waste** may
  - ignite
  - corrode
  - chemically react with another material

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Hazardous Waste

- **Toxic waste** can cause injury if
  - inhaled
  - swallowed
  - absorbed through the skin

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How You Can Help

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- Individuals play an important role in preserving and protecting the environment

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Conserve Resources

- To conserve resources, **recycle**
  - aluminum cans
  - glass and plastic bottles
  - paper
  - furniture
  - appliances
  - clothing

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Reduce Pollution

- To reduce air pollution,
  - walk, ride a bike, or take public transportation, instead of driving
  - combine errands or carpool

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Reduce Pollution

- To reduce water pollution,
  - avoid dumping waste on the ground or into bodies of water
  - choose nontoxic cleaning agents and biodegradable detergents

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Reduce Pollution

- To reduce noise pollution
  - insulate your home from noise pollution
  - protect your hearing by wearing ear protectors

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Reduce Pollution

- Reduce, reuse, recycle
- Insist that your community use safe practices
- Join community groups
- Write your legislators

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Make Responsible Decisions

- Fully evaluate your choices to the best of your ability
- Seek out environmental information from reputable sources, such as the U.S. Environmental Protection Agency

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Did You Know?

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- In 2009, Americans discarded 2.37 million tons of e-waste, including TVs, computers, and cell phones.

Source: U.S. Environmental Protection Agency

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Section 5-2 Review

- What is the source of fossil fuels?
  - *decayed plants and animals that lived long ago*
- Give examples of toxic waste.
  - *Answers will vary, but may include used motor oil, antifreeze, certain batteries, empty pesticide containers, solvents*

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Section 5-2 Review

- List two ways you can minimize product-packaging waste.
  - *(List two:) choose products with minimal or no packaging, reuse empty containers, use rechargeable batteries, recycle*

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Section 5-3

Conserving Energy

Objectives

- Identify renewable and nonrenewable energy sources.
- Discuss ways you can help conserve energy at home.

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Nonrenewable Energy Sources

- Caring for the environment involves using energy wisely
- *Energy* is something that gives a machine the power to perform an action
- Light, heat, and electrical are types of energy

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Nonrenewable Energy Sources

- People supplement their own physical energy with energy from other sources
- Two major sources of energy
  - nonrenewable (limited supply)
  - renewable

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Nonrenewable Energy Sources

- Once a nonrenewable energy source is depleted, no further supplies are available
- They include
  - fossil fuels
  - crude oil
  - natural gas
  - coal
  - uranium ore

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Renewable Energy Sources

- Sources of energy that can be replaced are called *renewable* energy sources
- They include
  - water
  - wind
  - solar
  - biomass
  - geothermal

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Water

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- The energy of falling water can be converted into electrical energy called *hydroelectric energy*

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Water

- Through the cycle of water evaporation and rain, the supply of water is replaced
- Most power-generating sites in the U.S. have already been developed

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Wind Energy

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- Wind turbines can convert the energy of the wind into electrical energy

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Wind Energy

- Wind energy is the fastest growing energy technology and does not harm the environment
- Good sites are abundant, but are often located far from where energy is needed

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Solar Energy

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- **Solar energy** from the sun is the greatest renewable source of energy

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Solar Energy

- The sun’s energy can be captured and used in several ways
- The supply of solar energy is almost limitless and generating it does not harm the environment

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Biomass

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- Energy is stored in dry, decayed plant and animal matter called **biomass**

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Biomass

- When burned, biomass produces heat and steam that can be converted to electricity
- Wood, crops, and solid waste are types of biomass often burned to create energy

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Geothermal Energy

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- *Geothermal energy* is derived from heat produced within the earth

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Geothermal Energy

- Heat is collected as steam to generate electricity
- It is available in certain locations, especially areas in the western U.S.

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Energy in the Future

- Delivering energy may become a problem because of dependence on fossil fuels
- Renewable energy sources make up a small percentage of U.S. energy supplies
- Greater investment in research and development is needed

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You Can Help Conserve Energy

- An important goal for everyone is to reduce the use of fossil fuels
  - Use energy-efficient appliances
  - Learn how to live with and use appliances efficiently
- Using less energy lowers utility bills

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Heating and Cooling a Home

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- More than half of the energy used by a household is for heating and cooling

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Heating and Cooling a Home

- To conserve energy
  - use a programmable thermostat
  - wear layered garments
  - seal air leaks
  - use appropriate window coverings
  - add insulation, if needed

continued

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Heating and Cooling a Home

- To conserve energy
  - use storm windows or replace single-pane windows with double-pane windows
  - use trees, shrubs, and vines to help shield a home from the elements

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Water Heating

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- The water heater uses about 15 percent of a home's energy budget

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Water Heating

- Reduce hot water usage by
  - using cold water when possible
  - taking quick showers and using aerating showerheads
  - running appliances with full loads only
  - lowering the water heater temperature
  - insulating the hot water storage tank

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Think Further

- *What steps can you take to lower energy use in your home?*

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Lighting and Appliances

- About 28 percent of the home's energy budget is used by
  - lighting
  - appliances
  - TVs and other power-using equipment

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Lighting

- Use energy-efficient lightbulbs like compact-fluorescent bulbs which last 4 to 10 times longer than traditional bulbs

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Lighting

- Use the lightbulb that gives adequate light with the lowest wattage
  - **Wattage** indicates the amount of energy required to operate a bulb
  - **Lumens** indicate the amount of light produced by a given source

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Refrigerated Food Storage

- To save energy
  - open and close doors quickly
  - cover food storage containers before storage
  - keep refrigerator temperatures between 37°F and 40°F

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Other Kitchen and Laundry Appliances

- Dishwasher
  - When loading, scrape off rather than rinse off food scraps and use the air-drying feature
- Range
  - Match pan size to the heating element, use covers, and use the oven to cook several dishes at the same time

continued

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Other Kitchen and Laundry Appliances

- Clothes washer and dryer
  - Adjust water level to load size
  - Dry heavier items separately
  - Avoid overdrying

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Home Electronics and Office Equipment

- They use energy when they are turned off
- When not in use, unplug products or plug them into a power strip that is switched off

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Shopping for Energy Efficiency

- When shopping for new products, consider
  - purchase price
  - operating cost
- *EnergyGuide labels* help you compare operating costs of major appliances
- *Energy Star labels* identify the most energy-efficient products

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Section 5-3 Review

- *True or false.* Fossil fuels are a type of renewable energy.
  - *false—they are a type of nonrenewable energy*

- Why is burning coal, which is abundant, to create energy a problem?
  - *by-products of burning coal can add to air pollution*

continued

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Section 5-3 Review

- More than half of the energy used in a household is used for _____ and _____.
  - *heating, cooling*

- What does the wattage of a lightbulb indicate?
  - *the amount of energy required to operate the bulb*

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