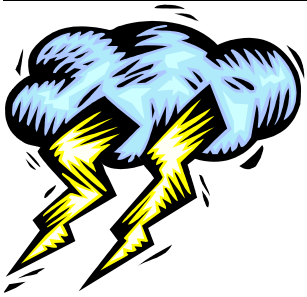
Unit C: Chapter 2 Study Guide

Complete each statement.

1. A(n) _____ is an energy resource that was formed from living things that died long ago.
2. Stored energy is called _____ energy.
3. Plants use _____ to turn the sun's energy into food.
4. The energy given off by the sun is called _____ energy.
5. The sun produces energy through nuclear _____.
6. Energy stored by living things is in the form of _____ energy.

Label each picture or description to tell which energy forms are being shown or changed. Use these terms: electrical energy, light energy, heat energy, sound energy, chemical energy, mechanical energy.



lightning is an example of _____ and light energy.

A fire burns fuel, converting chemical energy into _____ and _____

A plant converts solar energy into _____

When a TV set is turned on, electrical energy is changed to _____, _____ and _____

The excavator uses _____ to move its load into the dump truck.

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Think about the tools used around your home. List three examples for each type of energy transfer. One example is already listed for the first type of energy transfer.

1. electrical energy to heat:
   _____an electric oven when it is turned on_____
   _____
   _____

2. chemical energy into light:
   _____
   _____
   _____

3.potential energy into kinetic energy:
   _____
   _____
   _____

Number in order the following energy events involved in getting a television image to your home.

_____ The television antenna at your home receives the signal.

_____ A power plant produces electricity.

_____ The television set transforms the signal into light, sound, and heat.

_____ A television station uses electricity to record the electronic image on videotape.

_____ Electricity is sent from the power plant to the television station.

_____ The broadcast antenna sends out the TV signal.

Number in order the following steps in the creation of a fossil fuel.

_____ Many living things in an ancient sea die and fall to the bottom.

_____ Tremendous heat and pressure build up, causing the remains of living things to become pockets of gas and oil within rock.

_____ Layers of sediment cover the remains of ancient sea life over many centuries.

_____ Workers drill through many layers of sedimentary rock to remove the oil and natural gas from the earth.

_____ Plants and microscopic sea life change solar energy into chemical energy and store it.