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Prentice Hall Chemistry Workbook Answers Chapter 25

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Name _____ Date _____ Class _____

17 THERMOCHEMISTRY

SECTION 17.1 THE FLOW OF ENERGY—HEAT AND WORK (pages 505–510)

This section explains the relationship between energy and heat, and distinguishes between heat capacity and specific heat.

► **Energy Transformations (page 505)**

1. What area of study in chemistry is concerned with the heat transfers that occur during chemical reactions? **Thermodynamics**
2. Where the use of energy is concerned (in a scientific sense), when is work done? **Work is done when a force is used to move an object.**
3. Circle the letter next to each sentence that is true about energy.
 - (a) Energy is the capacity for doing work or supplying heat.
 - (b) Energy is dissipated only because of inefficiency.
 - (c) Heat is energy that transfers from one object to another because they are at the same temperature.
 - (d) Coalmine contains a significant amount of chemical potential energy.
4. Circle the letter next to each sentence that is true about heat.
 - (a) One effect of adding heat to a substance is an increase in the temperature of that substance.
 - (b) Heat always flows from a cooler object to a warmer object.
 - (c) If two objects remain in contact, heat will flow from the warmer object to the cooler object until the temperature of both objects is the same.

► **Exothermic and Endothermic Processes (pages 506–507)**

1. What can be considered the "system" and what are the "surroundings" when studying a mixture of chemicals undergoing a reaction? Write your answers where indicated below.
System: **The mixture of chemicals itself is considered the system.**
Surroundings: **Everything but the mixture of chemicals in the surroundings, but essentially everything, the immediate vicinity of the system.**

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