Name	Class	Date	

Assessment)

Heat

Section Quiz: Defining Heat

Write the letter of the correct answer in the space provided.

- _____ **1.** What term is defined as the energy transferred between objects with different temperatures?
 - a. internal energy
 - **b.** work
 - c. heat
 - d. thermal equilibrium
- **2.** What must be true if energy is to be transferred as heat between two bodies in physical contact?
 - a. The two bodies must have different volumes.
 - **b.** The two bodies must be at different temperatures.
 - c. The two bodies must have different masses.
 - **d.** The two bodies must be in thermal equilibrium.
- **3.** What occurs to the particles in a substance at low temperature when energy is transferred to the substance as heat?
 - **a.** The average kinetic energy of the particles increases.
 - **b.** The average kinetic energy of the particles remains constant.
 - **c.** The average kinetic energy of the particles decreases.
 - **d.** The average kinetic energy of the particles varies unpredictably.
- **4.** If energy is transferred spontaneously as heat from a substance with a temperature of T_I to a substance with a temperature of T_2 , which of the following statements must be true?
 - **a.** $T_1 < T_2$
 - **b.** $T_1 = \tilde{T_2}$
 - c. $T_1 > T_2$
 - **d.** More information is needed.
- **5.** A container with a temperature of 37° C is submerged in a bucket of water with a temperature of 15° C. An identical container with a temperature of T_I is submerged in an identical bucket of water with a temperature of T_2 . If the amounts of energy transferred as heat between the containers and the water are the same in both cases, which of the following statements is true?
 - **a.** $T_1 = 5^{\circ}\text{C}; T_2 = 37^{\circ}\text{C}$
 - **b.** $T_1 = 10^{\circ}\text{C}; T_2 = 47^{\circ}\text{C}$
 - **c.** $T_1 = 12^{\circ}\text{C}; T_2 = 32^{\circ}\text{C}$
 - **d.** $T_1 = 7^{\circ}\text{C}; T_2 = 29^{\circ}\text{C}$

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Heat continued		(1ms/me89.28/ ₀
6. What is the processor cold and hot mat a. thermal conduct b. thermal insula c. convection d. radiation	action	nsferred by the motion of
 7. Which of the followard ceramic b. iron c. fiberglass d. cork 	owing is not a good therm	al insulator?
If the arrow is fir	a target, causing an interred so that it enters the tard as when it was fired, what	
9. Describe how energy is temperatures, and how t	transferred between two c they reach thermal equilib	
d estinado de la composação lo desta esta estados e	rat partition pay reporting its mile.	The content of the