Name:	Date:
Chapter 7 Quiz	
<b>Part A:</b> Modified True/False Indicate whether each statement is t statement to make it true.	rue or false. If the statement is false, change the
1. When an object absorbs th	nermal energy, the particles in the object move faster.
2. For a liquid to freeze and freeze.	form a solid, the particles in the liquid must gain
3. During thermal expansion	, the mass of an object increases.
Part B: Completion Complete each sentence given below 4. The energy of its	of an object is a measure of the average
<i>C.</i>	om objects to

## **Part C:** Multiple Choice

Circle the letter beside the answer that best answers the question.

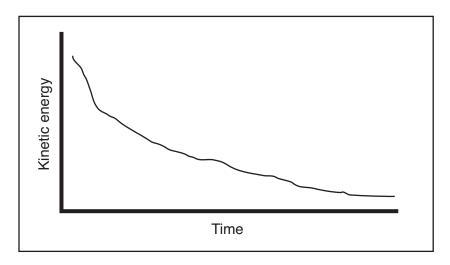
- **6.** Which of the following statements is not part of the particle theory of matter?
  - (a) The particles in matter are always moving.

\_\_\_\_\_ objects.

- **(b)** An object's particles have spaces between them.
- (c) The particles in matter move faster when they are heated.
- (d) An object's particles expand when the object gets warmer.
- 7. A student measures the air pressure inside her bicycle tires before and after she goes on a long bicycle ride. What will she most likely observe?
  - (a) The pressure in both tires is lower after the ride.
  - **(b)** The pressure in both tires is higher after the ride.
  - (c) The pressure in the front tire is higher after the ride, and the pressure in the rear tire is lower after the ride.
  - (d) The pressure in the rear tire is higher after the ride, and the pressure in the front tire is lower after the ride.

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- **8.** A scientist adds the same amount of energy to equal masses of four substances. Which of the four substances below will probably expand the most as it absorbs the energy?
  - (a) solid iron
- (c) oxygen gas
- **(b)** solid wood
- (d) liquid water
- **9.** The graph below shows how the kinetic energy of the particles in a substance changed over time. What most likely happened to the object's temperature over this time period?



- (a) It increased.
- (c) It increased, then decreased.
- **(b)** It decreased.
- (d) It decreased, then increased.

Part D: Short Answer

10. Use the particle theory of matter to explain why most objects expand when heated.

11. A student observes that a cabinet door appears to be smaller in the winter than it is in the summer. He concludes that the particles in the wood shrink in cold weather. Explain what is wrong with the student's explanation, and give a correct explanation.