Name	Class	Date	
Assessment			
Heat			

Section Quiz: Temperature and Thermal Equilibrium

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

write the	ietter of the correct answer in the space provided.
1	 Which of the following is proportional to the average kinetic energy of particles in matter? a. heat b. temperature c. thermal equilibrium d. internal energy
2	 What is the energy due to both the random motions of a substance's particles and the potential energy due to the bonds between those particles called? a. vibrational energy b. rotational energy c. translational energy d. internal energy
3	 What is the type of kinetic energy associated with a molecule spinning about its center of mass called? a. vibrational energy b. rotational energy c. translational energy d. internal energy
4	 Which of the following statements best describes a state of thermal equilibrium between two systems? a. Both systems have the same mass. b. Both systems have the save volume. c. Both systems have the same temperature. d. Both systems contain the same amount of internal energy.
5	 a. Which of the following statements correctly describes what occurs to a substance that undergoes thermal expansion? a. As the temperature increases, the volume of the substance increases b. As the temperature increases, the volume of the substance decreases c. As the temperature increases, the density of the substance increases d. As the temperature increases, the mass of the substance decreases.

Name	Class	Date
Heat continued		There is a second of
	ure of the air is measured as in degrees Celsius?	235 K. What is this tempera-
a. Both scalesb. Both scalesc. Neither sca	Celsius and Kelvin temperatus are based on the freezing are based on absolute zero. The has negative temperature ance of one degree is the same	nd boiling points of water. values.
	rature scale is used widely in uses throughout most of the	
9. Explain how the kine temperature.	etic energy of molecules in w	ater accounts for its
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Complete along the second	ungolis, kerrem merusig mili Pagama da merusigan	glast subdivide and Museum III.
		d signale continued in a second continued in a second continued in a second continued in a second continued in
	a warm day is 309.7 K. Calcul Cahrenheit temperature scale.	