Heat and Temperature Practice Quiz Topic 3 - The Particle Model

1.	The Particle Model of Matter helps to explain ideas about Thermal Energy. This model includes each of the following points EXCEPT all substances are made up of tiny particles that are too small to see
	the particles are always in motion
	the particles increase their energy output when they collide
	the particles have spaces between them
2.	Another important idea about temperature and the particle theory is that the motion of particles increases when the temperature increases. Which statement below is also correct? as the motion of particles decreases the temperature remains the same
	as the temperature decreases the motion of the particles also increases
	as the motion of the particles decreases the temperature decreases
	as the temperature increases the motion of the particles decreases
3.	Energy is the measure of something's ability to do work. Which of the following has the most thermal energy? a dead battery
	a melted slurpee
	a cup of hot coffee
	a swimming pool

4. Which of the following energy transfers would be correct? thermal energy in a hot drink is transferred to cold hands thermal energy is transferred from a room to a heater, so it can be heated an ice cube loses thermal energy when it melts in hot lemonade thermal energy is lost by a match when it is lit

5. Which of the following statements about energy is a correct scientific description of what energy is?

energy is a substance that can be transferred

the mass of energy can be measured using a precision instrument energy fills the space with highly charged tiny particles energy is a description of a quality or a condition

Check Answers

a swimming pool

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1.	The Particle Model of Matter helps to explain ideas about Thermal Energy. This model includes each of the following points, EXCEPT all substances are made up of tiny particles that are too small to see
	the particles are always in motion
	the particles increase their energy output when they collide (Text p. 203) Top of the page lists the three most important ideas about the particle model
	the particles have spaces between them
2.	Another important idea about temperature and the particle theory is that the motion of particles increases when the temperature increases. Which statement below is also correct? as the motion of particles decreases the temperature remains the same
	as the temperature decreases the motion of the particles also increases
	as the motion of the particles decreases the temperature decreases (Text p. 204) The motion of the particles dreases when the temperature decreases
	as the temperature increases the motion of the particles decreases
3.	Energy is the measure of something's ability to do work. Which of the following has the most thermal energy? a dead battery
	a melted slurpee
	a cup of hot coffee (Text p. 204) A 'hot' substance has more energy than a cold one

4. Which of the following energy transfers would be correct? thermal energy in a hot drink is transferred to cold hands (Text p. 205) Thermal energy is transferred from high energy source to something with low energy thermal energy is transferred from a room to a heater, so it can be heated an ice cube loses thermal energy when it melts in hot lemonade thermal energy is lost by a match when it is lit

5. Which of the following statements about energy is a correct scientific description of what energy is?

energy is a substance that can be transferred

the mass of energy can be measured using a precision instrument

energy fills the space with highly charged tiny particles

energy is a description of a quality or a condition (Text p. 207) Energy is not any of the other statements, it describes a quality or condition