

Name: Michaela Huber

Date:

Class: Physical Science

Physical Science Chapter 10 Quiz: Thermal Energy and Heat

Multiple Choice

1. Two basketballs colliding is an example of heat transfer.
- ☒ a. conduction
- ☐ b. convection
- ☐ c. radiation
- ☐ d. phase change
2. Energy added to a system
- ☒ a. results in a change in temperature
- ☐ b. always leads to a change in temperature
- ☐ c. is proportional to temperature
- ☐ d. indicates the kinetic energy of the system
3. When a definite quantity of heat is added to an object,
- ☐ a. temperature will be lower
- ☐ b. temperature is not due to motion
- ☐ c. there will be 100% efficiency
- ☒ d. it gains energy from heat transfer
4. A direct transfer of thermal energy usually by
- ☐ a. conduction
- ☐ b. convection
- ☒ c. radiation
- ☐ d. specific heat
5. Convectional cells form as
- ☐ a. radiation
- ☐ b. conduction
- ☒ c. convection
- ☐ d. discharge
6. Why does liquid rise in a thermometer?
- ☐ a. conduction
- ☒ b. thermal expansion
- ☐ c. convection
- ☐ d. radiation
7. Which statement is NOT true about heat?
- ☐ a. It always moves.
- ☐ b. Heat always moves faster than cold objects.
- ☒ c. Heat always moves from warmer to cooler.
- ☐ d. It is not a form of energy transfer.
8. Which of the following is a thermal conductor?
- ☒ a. aluminum
- ☐ b. air
- ☐ c. wood
- ☐ d. steel

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