

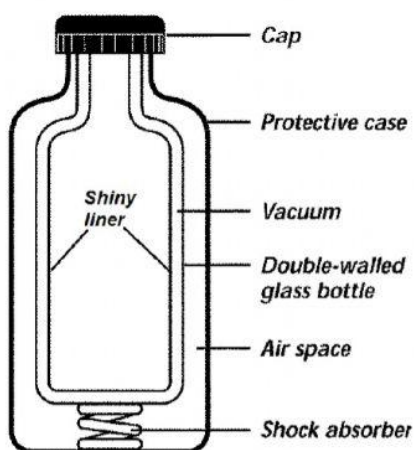
## Chapter 14 Unit Test

### Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- \_\_\_\_ 1. Which statement is true of gases?
  - a. Gases have a definite volume.
  - b. Gases have a definite shape.
  - c. Gases expand to fill all the space available.
  - d. The particles that make up gases are packed together in a relatively fixed position.
- \_\_\_\_ 2. The transfer of energy by electromagnetic waves is called
  - a. convection.
  - b. radiation.
  - c. conduction.
  - d. insulation.
- \_\_\_\_ 3. In an internal combustion engine, each up or down movement by a piston is called a
  - a. crank.
  - b. combustion.
  - c. turn.
  - d. stroke.

### Thermos Bottle



- \_\_\_\_ 4. Which kind of heat transfer is the shiny liner designed to stop?
  - a. Radiation
  - b. Convection
  - c. Conduction
  - d. Transition
- \_\_\_\_ 5. The vacuum would stop heat transfer by
  - a. Conduction & Convection
  - b. Radiation & Convection
  - c. Convection
  - d. Conduction
- \_\_\_\_ 6. The movement of thermal energy from a warmer object to a cooler object is called
  - a. heat.
  - b. motion.
  - c. momentum.
  - d. temperature.
- \_\_\_\_ 7. Heat, like work, is an energy transfer measured in
  - a. joules.
  - b. watts.
  - c. degrees.
  - d. kelvins.
- \_\_\_\_ 8. Vaporization that takes place only at the surface of a liquid is called
  - a. melting.
  - b. boiling.
  - c. evaporation.
  - d. condensation.
- \_\_\_\_ 9. A steam engine is an example of a(n)
  - a. eight-cylinder engine.
  - b. internal combustion engine.
  - c. external combustion engine.
  - d. four-stroke engine.
- \_\_\_\_ 10. The addition or loss of thermal energy changes the arrangement of the particles during
  - a. radiation.
  - b. conduction.
  - c. a change of state.
  - d. convection.