Write the letter of the correct answer on the line at the left.

_____ **1.** Which of the following temperatures is NOT possible?

a. 2 K **b.** −100°C
c. −274°F **d.** −5 K

_____ **2.** Which of the following does NOT describe an external combustion engine?

a. The fuel is burned outside the engine.
b. It converts heat energy to mechanical energy.
c. Pistons move inside cylinders.
d. An example is an automobile engine.

_____ **3.** Temperature is a measure of the average _____ of each particle within an object.

a. kinetic energy **b.** state
c. heat **d.** conduction

_____ **4.** Which of these is NOT a way of transferring heat?

a. conduction **b.** convection
c. radiation **d.** insulation

_____ **5.** Radiation is the transfer of energy by

a. convection currents. **b.** direct contact.
c. electromagnetic waves. **d.** evaporation.

_____ **6.** Specific heat is the amount of energy required to raise the temperature of

a. 1 joule of a substance by 1 kelvin.
b. 1 kilogram of a substance by 1 kelvin.
c. 1 kilogram of a substance by 1 joule.
d. 1 gram of a substance by 1°F.

	Definite Shape	Definite Volume
Solid		
Liquid		
Gas		

_____ **7.** Liquids have

a. no definite volume and no definite shape.
b. definite volume but no definite shape.
c. definite volume and definite shape.
d. definite shape but no definite volume.

_____ **8.** Which of the following is NOT a change of state?

a. Water flowing **b.** Water boiling
c. Ice cream melting **d.** Dew condensing

LIVEWORKSHEETS