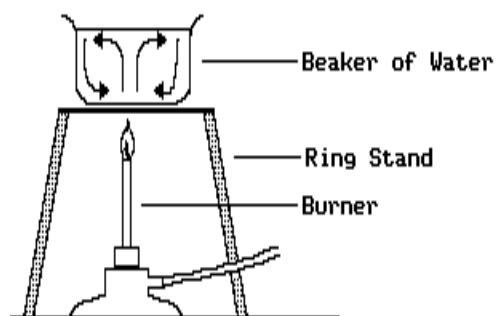


# Energy MC Review

Name: \_\_\_\_\_

- 1) Which process requires the addition of energy to water?  
A) vaporization of water  
B) condensation of water  
C) freezing of water  
D) cooling of water
- 2) According to the *Earth Science Reference Tables*, which material would require the most heat energy to increase the temperature of 1 gram of the material one Celsius degree?  
A) ice  
B) water  
C) basalt  
D) granite
- 3) Which type of surface would most likely be the best reflector of electromagnetic energy?  
A) light-colored and rough  
B) dark-colored and rough  
C) dark-colored and smooth  
D) light-colored and smooth
- 4) Which statement is the best example of heat energy transfer by conduction?  
A) Heat energy is transferred from the bottom to the top of the lake.  
B) Heat energy is transferred from the surface soil to the rocks below.  
C) Heat energy is transferred from the Sun to the Earth.  
D) Heat energy is transferred from the Earth's surface to the upper atmosphere.
- 5) An object that is a good radiator of electromagnetic waves is also a good  
A) insulator from heat  
B) reflector of heat  
C) retractor of electromagnetic energy  
D) absorber of electromagnetic energy
- 6) Which process results in a release of heat energy?  
A) evaporation of water  
B) condensation of water vapor  
C) heating of liquid water  
D) melting of ice

- 7) The diagram shows a container of water that is being heated. The movement of water shown by the arrows is most likely an example of



- A) conduction  
B) insolation  
C) convection  
D) radiation
- 8) Which characteristics of a material have the *greatest* effect on the amount of insolation that the material will absorb?  
A) density and hardness  
B) roughness and color  
C) age and roughness  
D) hardness and age
  - 9) Infrared, ultraviolet, and visible light are all part of the solar spectrum. The basic difference between them is their  
A) wavelength  
B) source  
C) temperature  
D) speed
  - 10) Which example of heat transfer is due mainly to convection?  
A) heat energy transferred by air moving from the Earth's surface to the upper atmosphere  
B) heat energy transferred through a solid metal door  
C) heat energy transferred from the Sun to the Earth  
D) heat energy transferred by being reflected from a lake surface to the air above
  - 11) If equal masses of water in various phases (states) are compared, which phase will contain the *greatest* amount of stored energy?  
A) solid ice  
B) water vapor  
C) liquid water

## ANSWER KEY

1) A 2) B 3) D 4) B 5) D 6) B 7) C 8) B 9) A 10) A 11) B