QUIZIZZ Worksheets

Name

Class

Date

Laws of Thermodynamics

Total questions: 17

Worksheet time: 29mins

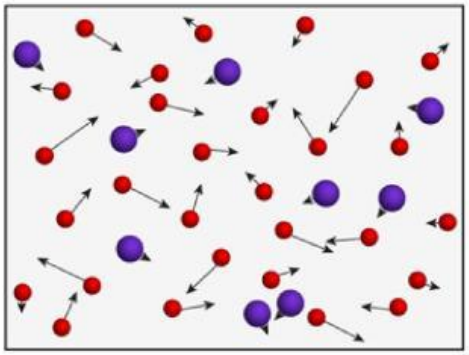
1. Temperature is a measure of the...

   a) total energy in a substance

   b) total kinetic energy in a substance

   c) average potential energy in a substance

   d) average kinetic energy of molecules in a substance

2. 

   A slower particle has a lower energy than an identical, faster particle.

   a) True

   b) False

3. The transfer of thermal energy between objects of different temperatures is called...

   a) temperature

   b) heat

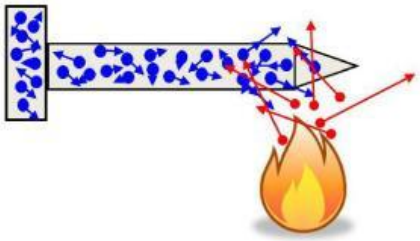
   c) internal energy

   d) none of these

4. It is possible to reach absolute zero

   a) true

   b) false

5. 

When thermal energy is added to a substance, the substance's particles move:

a) More rapidly at an increased distance from each other.

b) More rapidly with less distance between each other.

c) More slowly with a greater distance between each other.

d) More slowly with a reduced distance between each other.

6. Heat travels from the sun to the earth by the process of...

a) conduction

b) convection

c) radiation

d) insulation

7. 

The temperature of a glass of cold water will eventually...

a) Match the temperature of the surrounding environment.

b) Always be colder than the surrounding environment.

c) Become warmer than the surrounding environment.

d) Never change temperature.

8. The first law of thermodynamics states that energy is

a) created

b) destroyed

c) conserved

d) created and destroy

9. Which way does heat flow?

a) hot to cold
b) cold to hot
c) it doesn't

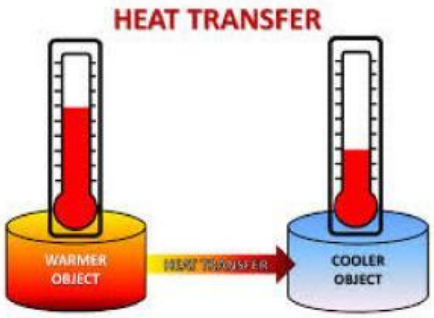
10. Which of the following is an example of convection?

a) A hair dryer is drying up your hair.
b) When the AC or heater changes the temperature.
c) When a car engine turns hot after being turned on.
d) When you are making soup and the water is rising and lowering.

11. What heat transfer happens when you burn your hand by touching a fire?

a) Radiation
b) Conduction
c) Convection
d) Connection

12.

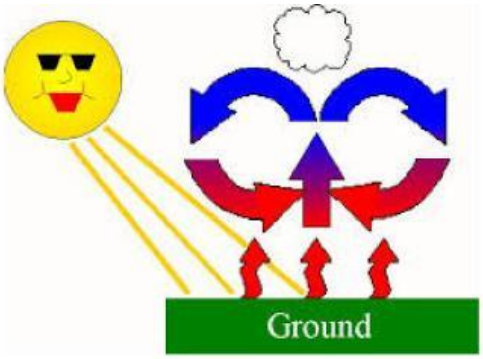


Heat transfers from an area of ____temperature to an area of ___ temperature.

a) high to low
b) low to high
c) high to high
d) All

13. The first law of thermodynamics states that the change in the internal energy of a system is equal to the difference in energy transferred to or from the system as heat and

a) mass
b) work done
c) force
d) pressure

14. 

Warm air rises and the cool air sinks demonstrates this type of heat transfer.

a) conduction
b) convection
c) radiation
d) Insolation

15. Dragging an object across a rough surface makes it warm, or even hot. The temperature increase occurs because of

a) Work
b) Heat
c) Thermal
d) Both work and heat

16. The total amount of energy in a system is ALWAYS _____.

a) increasing
b) decreasing
c) conserved
d) changing

17. The energy stored in gasoline is

a) chemical energy.
b) electromagnetic energy.
c) mechanical energy.
d) nuclear energy.