



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Subject : Physics _____ **Answers of Worksheet-10** _____ **Class: IX**

Date 10.06.2020

Chapter : Heat

Answer the following questions (MCQ) :

(1×15)

Question 1

Question 1

Q. The amount of heat required to raise the temperature of one gram of a substance by one degree Celsius is _____

answer choices

Heat energy

Specific heat

convection

thermal energy

Answer Specific heat

Question 2

Q. What is the definition of CONDUCTION?

answer choices

When heat is transferred from objects like rays of light or electromagnetically.

A hot liquid or air that expands, becomes less dense, and rises or becomes more dense, and sinks.

When heat transfers from objects that are touching.

When heat transfers through the heater or AC in your house.

Answer When heat transfers from objects that are touching.

Question 3

Q. What is the definition of CONVECTION

answer choices

When heat transfers through the heater or AC in your house.

When heat transfers from objects that are touching.

A hot liquid or air that expands, becomes less dense, and rises or becomes more dense, and sinks

Answer A hot liquid or air that expands, becomes less dense, and rises or becomes more dense, and sinks

Question 4

Q. What is the definition of RADIATION

answer choices

Hot liquid or air that expands, becomes less dense, and rises or becomes more dense, and sinks.

When heat is transferred from objects like rays of light or electromagnetically.

When heat transfers from objects that are touching.

When heat transfers through the heater or AC in your house.

Answer When heat transfers from objects that are touching.

Question 5

Q. How many kinds of heat transfer are there?

answer choices

1

2

3

4 or more

Answer 2

Question 6

Q. Heat and Temperature are the same thing

answer choices

True

False

Answer False

Question 7

Q. What is temperature?

answer choices

How hot or cold something is

a number on a thermometer

what I have when I am sick

anything about 30 degrees

Answer a number on a thermometer

Question 8

Q. What is an insulator?

answer choices

Something that does NOT absorb heat very well.

Something that absorbs heat.

Answer Something that does NOT absorb heat very well.

Question 9

Q. Which is more dense?

answer choices

Hot Liquid

Cold Liquid

Answer Cold Liquid

Question 10

Q. Hot objects begin to cool as-

answer choices

cooler air is transferred to the hot object.

thermal energy in the object is transferred to the surrounding air.

atoms in the object react with the oxygen in the air.

thermal energy in the object cancels out energy in the air

Answer thermal energy in the object is transferred to the surrounding air.

Question 11

Q. The heat from a hot burner to a pot is transferred by _____.

answer choices

convection

insulation

radiation

conduction

Answer conduction

Question 12

Q. The way the heat is moving from the hot coffee is called...

answer choices

convection

radiation

insulation

conduction

Answer convection

Question 13

Q. Insulation is used in the walls of a building to _____.

answer choices

trap solar energy

keep thermal energy from moving through the walls

conduct thermal energy

keep cold air from moving through the walls

Answer keep thermal energy from moving through the walls

Question 14

Q. Why do you want to live in a home with good insulation during the cold winter months?

answer choices

The insulation will keep you cool during winter.

If there is good insulation, the thermal energy will not be able to move easily from inside the warm home to the cool areas outside the building.

If there is not good insulation, the air inside the home will become too hot.

A house with good insulation will keep the warm air in the aattic.

Answer If there is good insulation, the thermal energy will not be able to move easily from inside the warm home to the cool areas outside the building.

Question 15

Q. When a popsicle melts, the particles _____.

answer choices

gain thermal energy and speed up

there are no particles in popsicles

lose thermal energy and slow down

stay the same

Answer gain thermal energy and speed up

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