



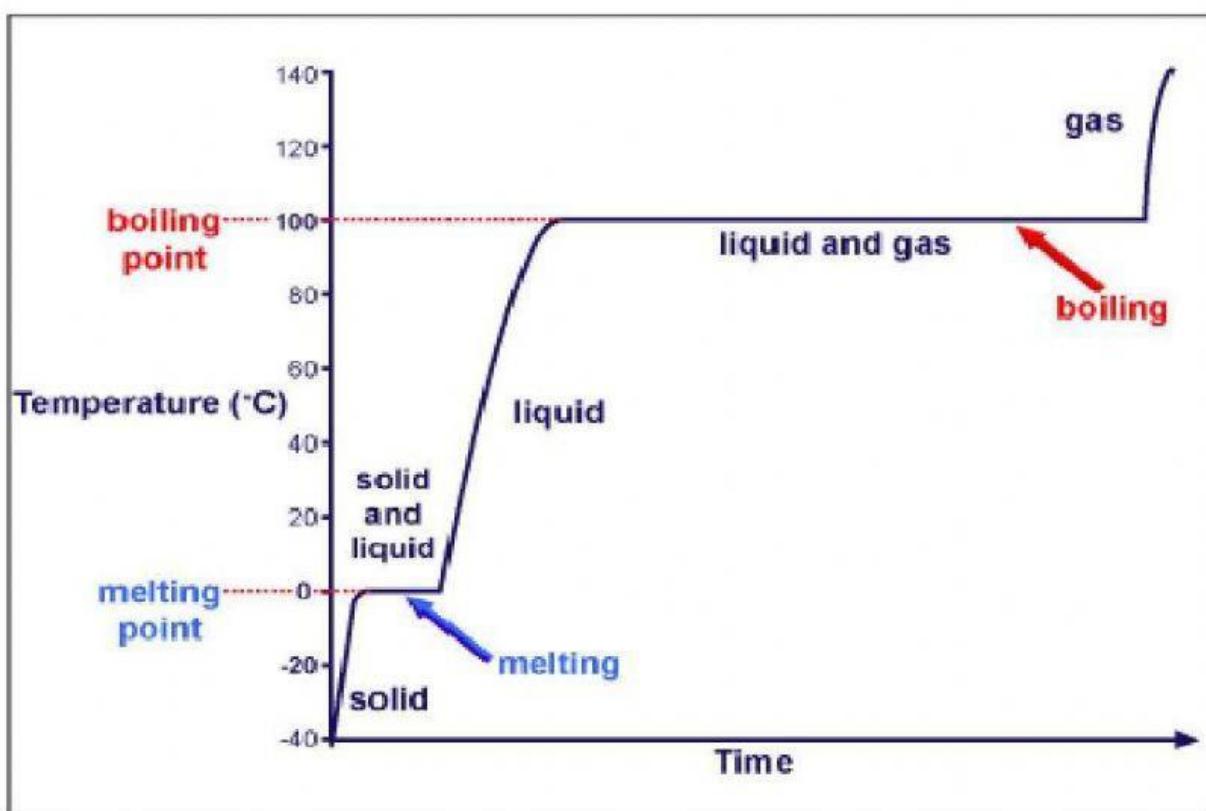
School year: 2020-2021

Date:

Name:

I. Choose the correct answer.

A HEATING CURVE



II. Choose T for true and F for false.

1. Heat and temperature are not the same thing.
2. Heat is the transfer of energy from one body to a cooler one. The heat of an object is the total energy of its molecular motion.
3. Conduction takes place when heated molecules in a gas or a liquid move from one place to another, heating up other molecules.
4. Conduction is the direct transfer of heat through direct contact.
5. In radiation, heat is transferred through electromagnetic waves.

III. Choose the correct answer to name the way heat is being transferred.



IV. Select the correct answer.

1. A _____ is a basic mechanical device used for moving things by increasing the push or pull that a person applies to an object.
a) simple machine b) compound machine c) machine d) work
2. This simple machine consists of a wheel attached to an axle.
a) lever b) wheel and axle c) wedge d) gears
3. A _____ is a long bar that rests on something underneath, called a fulcrum. By pushing down on one end of the bar, the fulcrum makes the other end raise up.
a) wedge b) wheel and axle c) machine d) lever
4. Forces occur in two general ways:
a) convection and radiation b) direct contact and across a distance c) friction and gravity d) friction
5. Forces is a pulling or pushing that produce specific changes, such as changes in _____ or changes in _____
a) matter, color b) motion, properties c) shape, motion d) temperature, motion

V. Drag and drop to complete the diagram.

SCREW

WHEEL

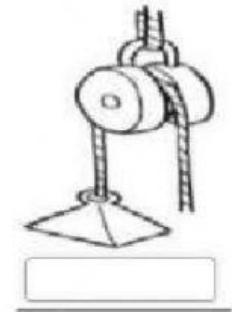
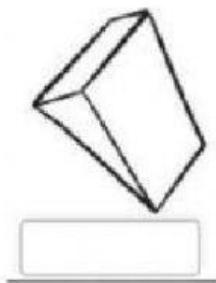
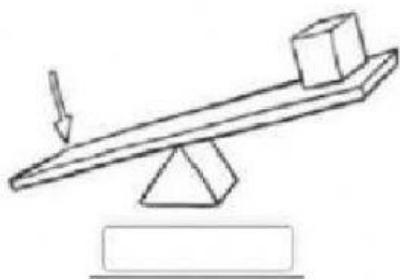
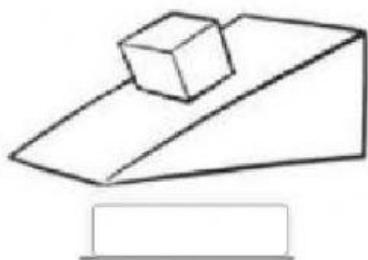
PULLEY

INCLINED PLANE

LEVER

WEDGE

LIVE WORKSHEETS



VI. Choose the correct answer.

1. Energy contained in different substances, like food or batteries.

2. Energy generated by the movement of the air.

3. Energy found in objects or bodies in motion (movement)

4. Energy produced by heat

5. Energy produced by the movement of water.

6. Energy that produces sound through vibration.

7. Energy produced when an object emits light.

VII. Choose the correct answer.

1. Machines can change the _____ of a force, change the _____ of a force, or _____ one kind of energy into another.
2. The law of _____ of energy states that energy can neither be _____ nor _____ but can only change form and flow from one place to another. The total amount of energy remains _____.
3. Energy cannot be created nor destroyed but it can be _____.

VIII. Choose to complete the chart about energy transformations.

