

Name: _____

Date: _____

1. Marta has a radio in her room. It requires electricity in order to play. Which of the following is necessary in order for electricity to move from the source to the radio?

- A. a circuit
- B. a magnet
- C. a light bulb
- D. an insulator

This online assessment item contains material that has been released to the public by the Massachusetts Department of Education.

2. If enough heat is taken away from a container of water, what will happen to the water?

- A. It will begin to boil.
- B. It will become a solid.
- C. It will turn into a gas.
- D. It will increase in weight.

This online assessment item contains material that has been released to the public by the Massachusetts Department of Education.

3. When electricity moves through a metal wire, the wire is

- A. a conductor.
- B. an insulator.
- C. a generator.
- D. a multiplier.

4. Over time, rocks can be changed by many natural forces. One natural force that would be an example of a chemical change would be

- A. sand blown against the rock.
- B. acid rain reacting with the rock.
- C. water rushing over the rock.
- D. freezing water in a crack breaking the rock.

5. What happens when a piece of wood burns?

- A. A physical change takes place.
 - B. A chemical change takes place.
 - C. The wood loses its gravity.
 - D. The wood loses its inertia.
-

6.

Use the table below to answer this question.

Mineral	Vinegar Drops Produce Bubbles
limestone	yes
sandstone	probably not
granite	no
gneiss	no

Vinegar is an acid that bubbles when it interacts with calcite. Which mineral contains calcite?

- A. limestone
 - B. sandstone
 - C. granite
 - D. gneiss
-

7. The mass of a solid object stays the same until

- A. it is put into orbit in space.
 - B. it changes volume by expanding or contracting.
 - C. matter is added to or taken away from the object.
 - D. the object is taken to another planet where the force of gravity is different.
-

8. When water in an open pan is heated for a long time, it becomes

- A. a solid.
 - B. a vacuum.
 - C. a gas.
 - D. dew.
-

9. What happens when water boils?

- A. The solid water becomes a liquid.
 - B. The liquid water becomes a solid.
 - C. The liquid water becomes a gas.
 - D. Water vapor becomes liquid water.
-

10. An example of a solid turning into a liquid is

- A. water vapor turning into water.
- B. water turning into water vapor.
- C. water freezing into ice.
- D. ice melting into water.

Answer Key

1. A) a circuit
2. B) It will become a solid.
3. A) a conductor.
4. B) acid rain reacting with the rock.
5. B) A chemical change takes place.
6. A) limestone
7. C) matter is added to or taken away from the object.
8. C) a gas.
9. C) The liquid water becomes a gas.
10. D) ice melting into water.