

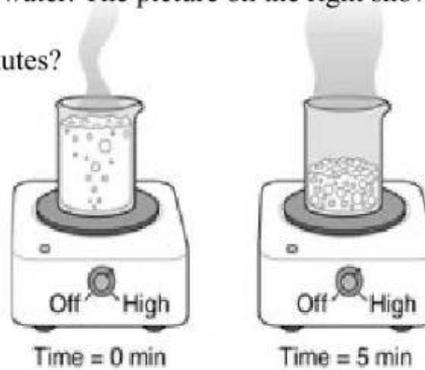
Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Changes in Matter

#### I. Read the following questions and circle the correct answer. (1 point each)

- 1) A beaker of water is placed on a hot plate. The picture on the left shows the beaker when bubbles first start forming in the water. The picture on the right shows the beaker 5 minutes later. What happened during the 5 minutes?



- a) Water was changed into energy during a chemical change.
- b) Water was changed into a different state during a physical change.
- c) Water was changed into a different material during a physical change.
- d) Water was changed into a different material during a chemical change.

- 2) How does cutting a whole pumpkin pie into eight slices affect its mass?

- a) Cutting the pie increases its mass.
- b) Cutting the pie decreases its mass.
- c) Cutting the pie does not change its mass.
- d) Cutting the pie makes its mass equal to its volume.

- 3) The table lists some examples of chemical changes and physical changes. Which example is in the wrong column?

Chemical changes	Physical changes
burning leaves	tearing paper
toasting a bagel	sharpening a pencil
baking a loaf of bread	pouring milk into a glass
crumpling aluminum foil into a ball	freezing water into ice cubes

- a) sharpening a pencil
- b) baking a loaf of bread
- c) pouring milk into a glass
- d) crumpling aluminum foil into a ball

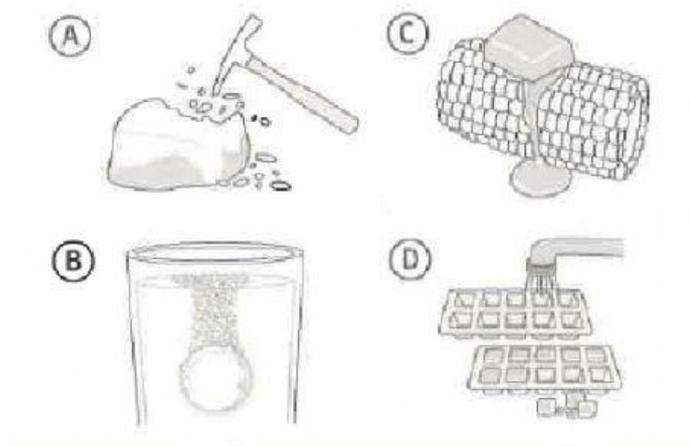
4) Students in a class made a list of activities that involve a chemical change. Which of these changes should be included on the list?

- a) ringing a bell
- b) making ice cubes
- c) picking up rocks
- d) making pancakes

5) Which of the examples below is NOT an indicator of a chemical change?

- a) Change of color
- b) A new smell
- c) Change of state
- d) Release of gas

6) Which of the following physical changes is NOT an example of a change in state?



7) All the following are examples of physical change EXCEPT:

- a) Melting
- b) Evaporating
- c) burning
- d) Freezing

8) Which of the following is an example of a chemical change?

- a) Baking a cake
- b) Freezing water
- c) bending a paper clip
- d) salt in water

2) A piece of iron can change in different ways. List two ways and specify whether the change is chemical or physical. (1 point)

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3) Write whether the sentences below are true or false. Correct the false ones. (1 point each)

- a) In a chemical change, the identity of the matter doesn't change.
- b) When water freezes, it expands.
- c) Cracking an egg into a bowl is an example of a chemical change.

4) Tell whether each change is a physical change or chemical change. (3 points)

