

# PHYSICAL VS CHEMICAL CHANGES WORKSHEET

1. Define physical and chemical changes. What are the main differences between the two?

2. Identify which of the following changes are physical or chemical.

a. Making a peanut, pretzel, and cereal mixture -

b. Copper turning green when exposed to the environment -

c. Using diamonds to scratch glass -

d. Crushing an aspirin into fine powder -

e. Bending a metal rod -

f. Baking soda reacting with vinegar to release a gas -

g. Water freezing to form ice -

h. Mixing salt and water -

i. Leaves falling from a tree -

j. Burning a tree to ashes -

k. Baking cookies -

l. Cutting hair -

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

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

# PHYSICAL VS CHEMICAL CHANGES WORKSHEET

## Answers

1. Define physical and chemical changes. What are the main differences between the two?

A physical change is when the substance itself does not change, with only its form changing. A chemical change takes place when a substance changes by itself or with another substance to form a new substance.

The main difference between the two is that a chemical change is irreversible while a physical change is not.

2. Identify which of the following changes are physical or chemical.

- a. Making a peanut, pretzel, and cereal mixture - **Physical**
- b. Copper turning green when exposed to the environment - **Chemical**
- c. Using diamonds to scratch glass - **Physical**
- d. Crushing an aspirin into fine powder - **Physical**
- e. Bending a metal rod - **Physical**
- f. Baking soda reacting with vinegar to release a gas - **Chemical**
- g. Water freezing to form ice - **Physical**
- h. Mixing salt and water - **Physical**
- i. Leaves falling from a tree - **Physical**
- j. Burning a tree to ashes - **Chemical**
- k. Baking cookies - **Chemical**
- l. Cutting hair - **Physical**

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

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