Name : _____ Date : _____

ELEMENTS, COMPOUNDS, AND MIXTURES FILL-IN-THE-BLANKS WORKSHEET

Fill in the blanks:

1. Properties of Elements:

A pure substance contains only one kind of _____.

Without a nuclear reaction, an element _____ be broken down into simpler materials.

There are over 100 existing elements are listed and classified on the _____.

2. Properties of Compounds:

A pure substance contains two or more kinds of _____.

The atoms are _____ combined in some way. Often, but not always, they come together to form groups of atoms called _____.

Compounds _____ be separated by physical means. It requires a _____ reaction.

The properties of a compound are generally _____ than the properties of the elements in its makeup.

3. Properties of Mixtures:

A mixture consists of either two or more _____ or _____ NOT chemically combined.

Mixtures can be uniform and known as _____.

Mixtures can also be non-uniform, known as _____.

Mixtures can be separated by _____ or _____.

A mixture has properties _____ to its components.

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ELEMENTS, COMPOUNDS, AND MIXTURES FILL-IN-THE-BLANKS WORKSHEET

Answers

Fill in the blanks:

1. Properties of Elements:

A pure substance contains only one kind of __element__.

Without a nuclear reaction, an element __cannot__ be broken down into simpler materials.

There are over 100 existing elements are listed and classified on the __periodic table__.

2. Properties of Compounds:

A pure substance contains two or more kinds of __elements__.

The atoms are __chemically__ combined in some way. Often, but not always, they come together to form groups of atoms called __molecules__.

Compounds __cannot__ be separated by physical means. It requires a __chemical__ reaction.

The properties of a compound are generally __different__ than the properties of the elements in its makeup.

3. Properties of Mixtures:

A mixture consists of either two or more __elements__ or __compounds__ NOT chemically combined.

Mixtures can be uniform and known as __solutions/homogenous mixtures__.

Mixtures can also be non-uniform, known as __heterogeneous mixtures__.

Mixtures can be separated by __chemical__ or __physical means__.

A mixture has properties __similar__ to its components.