I. Fill in the blanks

__________ properties can be observed without chemically changing matter. ____________ properties describe how a substance interacts with other substances. __________ have definite shapes and definite volumes. __________ have indefinite shapes and definite volumes. __________ have indefinite shapes and indefinite volumes.

Phase changes are ____________ changes. ____________ point is the temperature at which a liquid turns to a solid. It is also equal to the ____________ point which is the temperature at which a ____________ turns to a _________ . ____________ point is the temperature at which a liquid turns to a gas, and ____________ point is the temperature at which a gas turns to a liquid. Occasionally, a solid turns directly into a gas without turning into a liquid first. This is called _____________.

A(n) __________ is a pure substance that is made of only one kind of atom. The symbol for a(n) __________ is always one or two letters. When the symbol contains two letters, the first letter is always __________, and the second letter is always _____________.

A(n) __________ is a pure substance containing two or more elements that are __________ combined. A(n) __________ is represented by a chemical __________. The elements in a(n) __________ always combine in __________ proportions.

A(n) __________ is made of two or more substances that are __________ combined. A(n) __________ that is uniformly mixed is called __________. A special name for this is a(n) __________. A(n) __________ that is not uniformly mixed is called __________. A special type of mixture that is a solid __________ of two or more metals is called a(n) _____________.

The property used to separate a mixture of sand and iron filings is _____________. The technique used to separate liquids based on boiling points is called __________. The spinning machine used to separate mixtures based on densities is a _____________.

Density describes the relationship between the __________ and __________ of a sample of a substance. The most common units for density are __________ and __________. The density of water is __________.