

An Intro to Chemistry : Notes/W.S.-10

The Elements

An **element** is a substance which cannot be broken down into simpler substances. They are composed of only one type of atom.

Examples of common elements are; hydrogen, nitrogen, oxygen, iron and copper.

Each element has a symbol. The symbol contains one or two letters. The first letter is capitalized. The symbols for all of the elements are given in the **periodic table**.

The periodic table gives the names, symbols, and other important information about each of the elements.

Questions:

1) What is an element?

2)a) Name five common elements.

b) Give the symbols for each of the above elements.

3) What is the periodic table?

4) What is the number of elements given in the periodic table?

5) Name the element which has the following symbol.

a) Ni b) S c) Na d) Au

e) Ag f) Cl g) C h) Ca

6) Give the symbol for each of the following elements.

a) tungsten b) potassium c) aluminum d) helium

e) mercury f) chromium g) zinc h) cobalt

Answers: 1) It is a substance which cannot be broken down into simpler substances., 2)a) hydrogen, nitrogen, oxygen, iron, copper. b) the symbols are H, N, O, Fe, Cu., 3) It is a table which has the names, symbols and basic information about each of the elements., 4) There are more than 106 elements in the table., 5)a) nickel, b) sulfur, c) sodium, d) gold, e) silver, f) chlorine, g) carbon, h) calcium, 6)a) W, b) K, c) Al, d) He, e) Hg, f) Cr, g) Zn, h) Co.