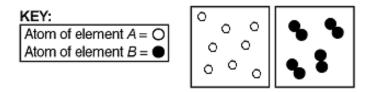


Aim: What are elements and how do they differ?

1) **<u>Element</u>**- the simplest kind of substances; they **can't** be **decomposed**. Elements consist of only one type of atom.



B is a diatomic element - 2 atoms of the same element bonded to each other.

2) There are about **100** elements. Almost all of them occur **naturally**; the rest are **man-made**.

Handout: Reference Tables, go to Periodic Table of Elements

3) Chemists use **symbols** to represent them.

1st letter, uppercase; 2nd, lowercase.

For example, Iron = Fe, not FE or fE or fe

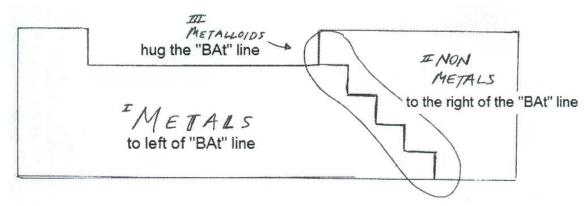
You $\underline{don't}$ have to memorize the names of the elements and their symbols; just refer to Table **S**.

Another example, K = potassium

The elements are named after **people**, **places and things**.

Examples: Einstein = Es_{99} , Mendeleev = Md_{101} ; California = Cf_{98} , France = Fr_{87} ; Bromos = Sr_{35} , Chloros = Sr_{35} , Chloros = Sr_{35} , ...

4) A quick look at the **Periodic Table**



Questions:			-
1) Classify the following elements as a Metal (M), NonMetal (NM) or Metalloid aka Semimetal (SM)			
Os Bi	Xe	_ As	
2) What is the symbol for strontium ?			
3) What is the name of the	element represented by F	Pd ?	