

(Sci Focus)  
p. 25-27.

## The Periodic Table

Notes + text ~~XXXXXXXXXX~~  
~~XXXXXXXXXX~~

A. **Remember:** Modern day periodic table deals only with elements.

B. Differentiate between an element and a molecular element.

element =

molecular element =

C. History of Classification of the Elements:

a.) Alchemists - used artistic symbols to illustrate elements.

eg.)

b.) John Dalton (an English chemist and physicist) developed simpler symbols

eg.)

c.) Jons Jakob Berzelius (a Swedish chemist) developed the letter symbols (a single capital letter followed by a lower case letter)

eg.)

d.) With the discovery of more and more elements in the early 1800's scientist searched for a new way to organize their knowledge.

e.) 1864 - John Alexander Newlands arranged elements on the basis of atomic mass. When he did this he noticed that certain physical and chemical properties recurred in a regular pattern.

f.) 1872 - Dmitri Mendeleev - a Russian chemist that organized elements into a periodic table with \_\_\_\_\_ and \_\_\_\_\_. Although there were gaps in his table, Mendeleev even predicted the discovery of new elements.

(p. 29-31 A.W.)