D. Features of the Modern Day Periodic Table

a.) Elements are arranged according to _____ (a number that represents the number of protons in each atom of that element)

b.) Elements are arranged in vertical columns called _____ or _____. The elements in these columns contain similar chemical properties.

eg.) _____ - (group 1) - are soft, silver-colored metals that react violently with water to form basic solutions.

_____ - (group 2) - are light, reactive metals that form oxide coatings when exposed to air.

_____ - (group 17) - are extremely reactive

_____ - (group 18) - non-reactive/ inert gases.

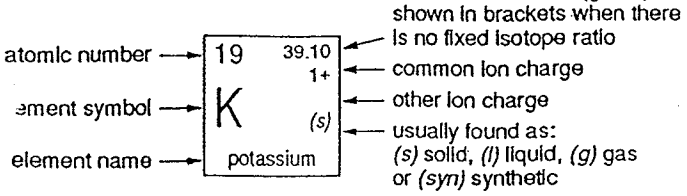
_____ - (groups 3-12) - this group exhibits a wide range of chemical and physical properties.

c.) Elements are also arranged in horizontal rows called _____. (early studies of chemistry often deal with Period 3 - Na ----------> Ar)

d.) _____ are located on the left of the "staircase line" and the _____ are on the right. Along the line are a group called _____ which exhibit metallic and non-metallic properties.

e.) Some periodic tables contain more than the basic information (symbol, atomic number, and name) as shown below:

BASIC



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