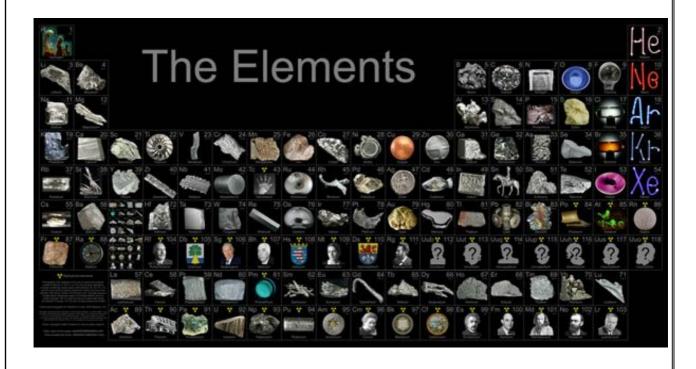
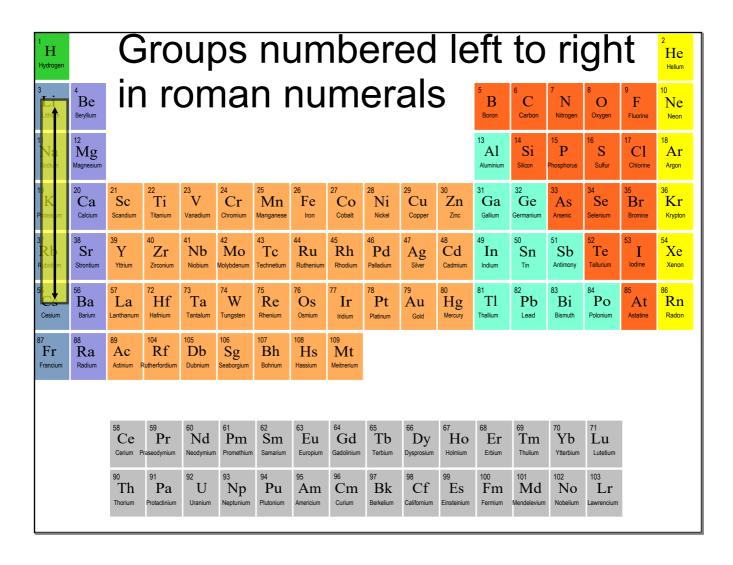
The Periodic Table



Arranged into

Columns called GROUPS or FAMILIES
(the columns go up and down)
and
Rows called PERIODS

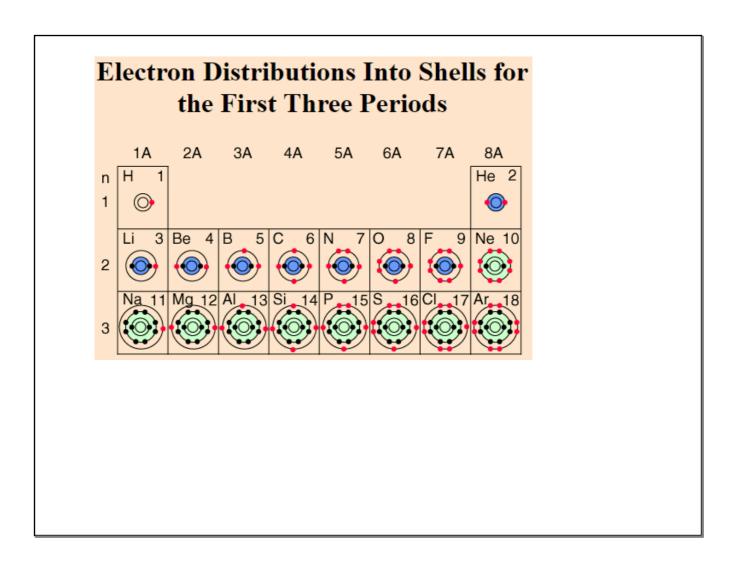
(rows go right and left)

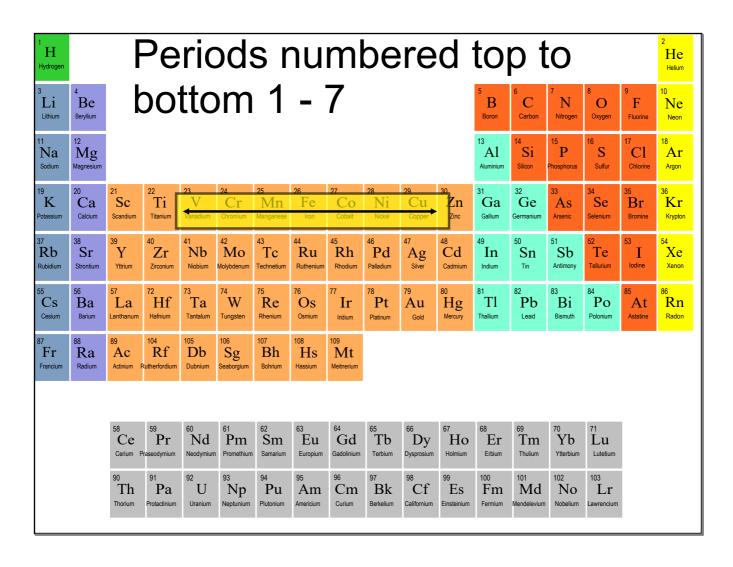


Groups or Families (columns)

- Go up and down
- numbered left -> right in Roman numerals
- -Every element in the Group has the same number of electrons in their outer shells. Or, we say, VALENCE ELECTRONS

For groups 1A through 8A, the group number is equal to the number of valence electrons

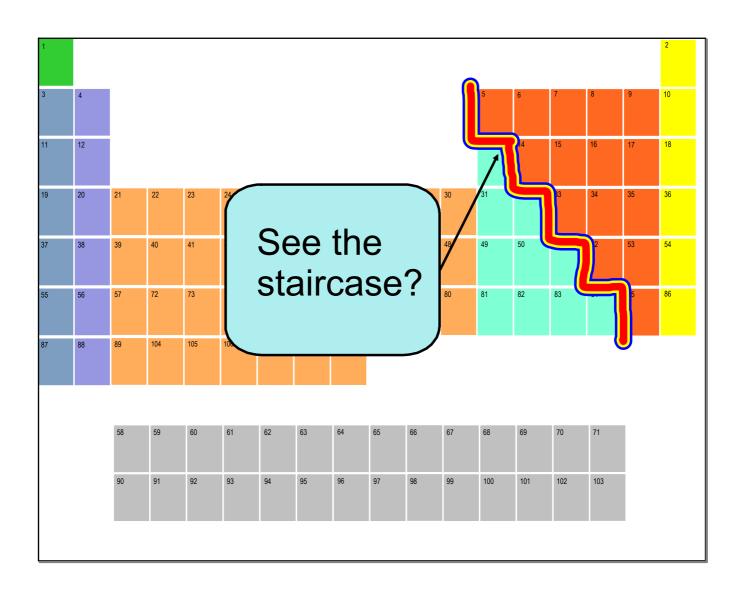


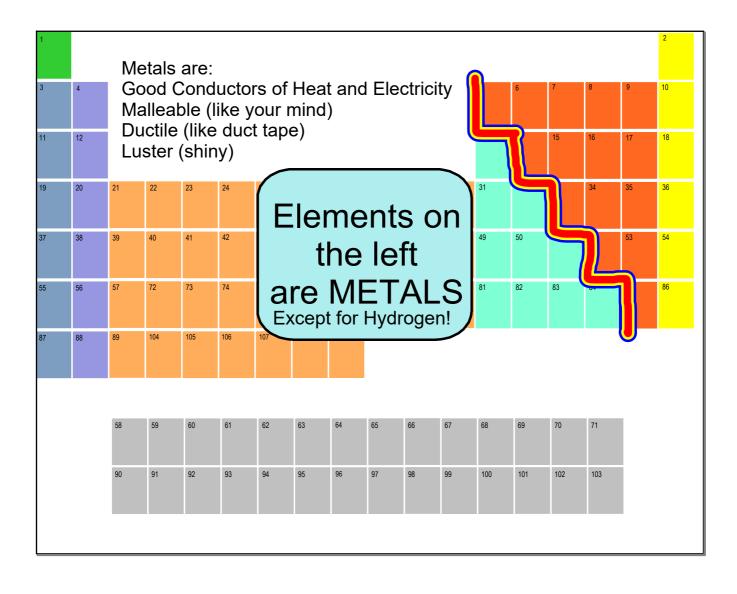


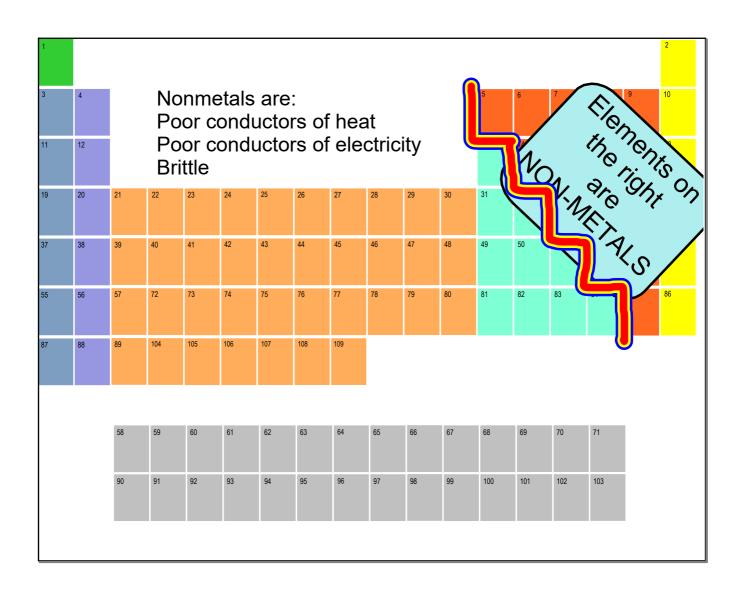
Periods (rows)

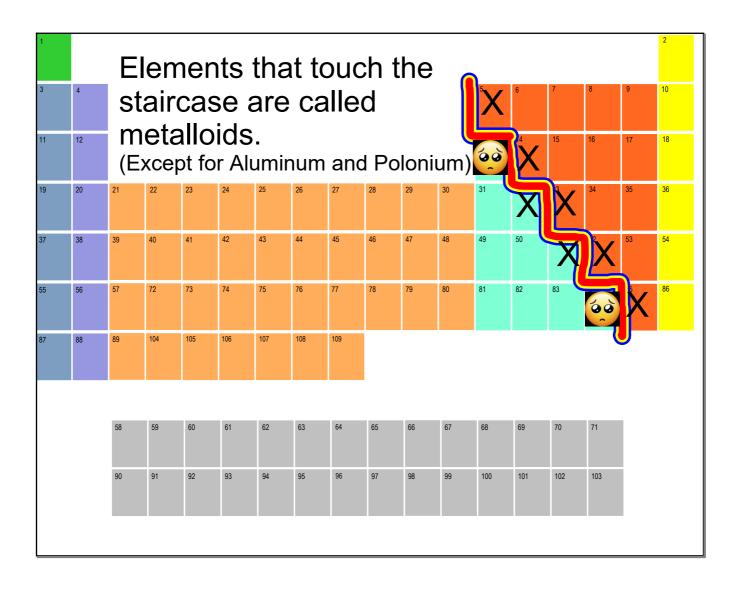
-Rows that go left and right

--have the same number of electron shells (2, 8, 18, then it gets weird)









Group I: Fairly Explosive! Group VIII: The Noble Gases

