















substance.



























+ Chemical Reactivity

- Nonmetals have higher electronegativities than metals --> causes the formation of ionic solids
- Compounds formed between nonmetals are molecular
 Usually gases, liquids, or volatile solids at room temperature
- Elements in the 3rd period and below can accommodate a larger number of bonds
- The first element in a group (upper most element of a group) forms pi bonds more easily (most significant in 2nd row, nonmetals)
- Accounts for stronger bonds in molecules containing these elements
 Major factor in determining the structures of compounds formed from these elements
- from these elements
- Elements in periods 3-6 tend to form only single bonds
- Reactivity tends to increase as you go down a group for metals and up a group for non-metals.

L.O. 1.10: Students can justify with evidence the arrangement of the periodic table and can apply periodic properties to chemical reactivity







































