



Atomic Structure and Bonding

Set 6: Bonding

answers in red

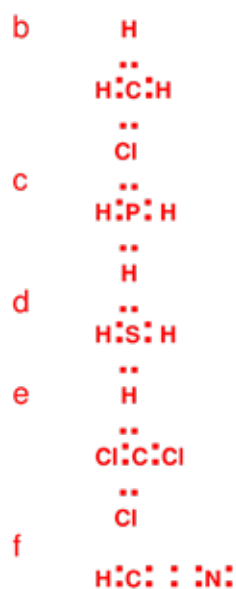
- Draw electron dot diagrams for the following atoms and ion;
 - Na
 - Br
 - P
 - S^{2-}
 - H^+
 - N^{3-}
- Draw electron dot diagrams for the following covalent molecular compounds;
 - H_2O
 - CH_3Cl
 - PH_3
 - H_2S
 - $CHCl_3$
 - HCN
- Draw electron dot diagrams for the following ionic compounds;
 - NaOH
 - $CaCl_2$
 - Fe_2O_3
 - K_2S
 - $Mg(OH)_2$
 - $AgNO_3$
- Explain why the use of electron dot diagrams can help determine the solubility of a substance.

1.

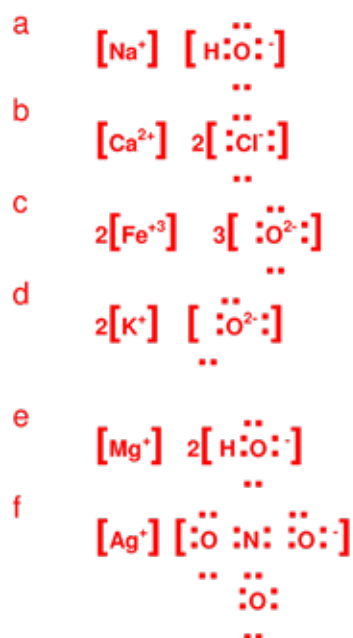


2.





3.



4. Electron dot diagrams can give information about the shape of a molecule hence the polarity of a molecule. Generally likes dissolve likes; meaning polar will dissolve polar and non-polar will dissolve non-polar.