

In Class 9: Lewis Dot Structures and Resonance

1. Is energy released or absorbed when a bond is formed? Why?
2. Draw valid Lewis dot structures (including equivalent resonance structures if relevant) for the following and then predict the geometry and bond angles:
 - a. H_3PO_4
 - b. CO_3^{2-}
 - c. KrF_3^+

Justify the following statement using diagrams and appropriate bonding models: The N-O bond distance in NO_3^- is longer than that in NO_2^- .