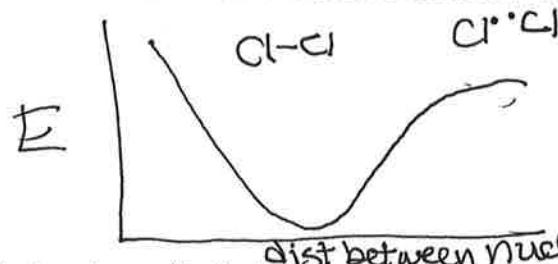


In Class 7: Lewis Dot Structures, VSEPR, resonance, and bonding applications

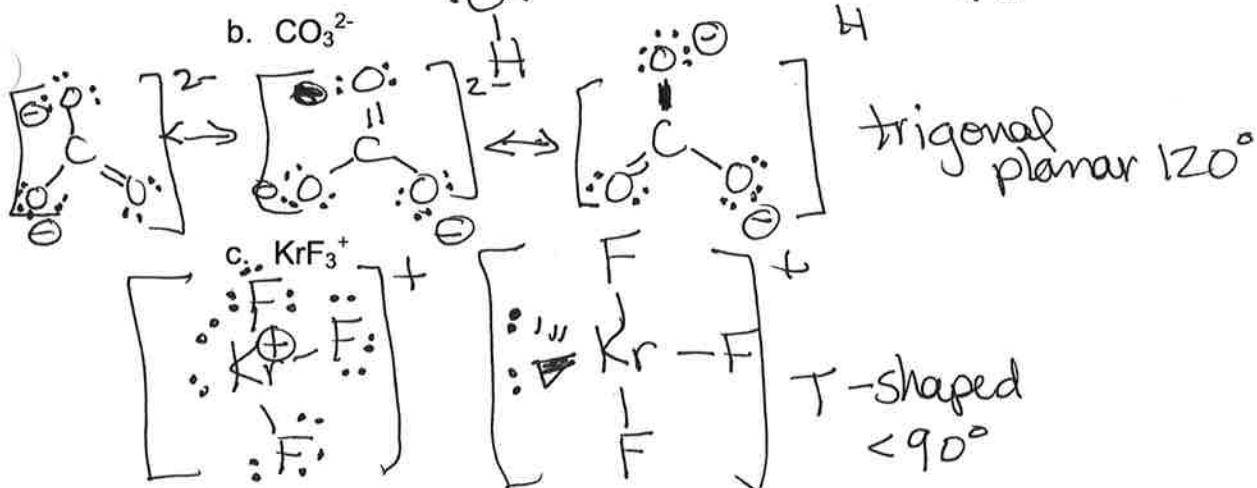
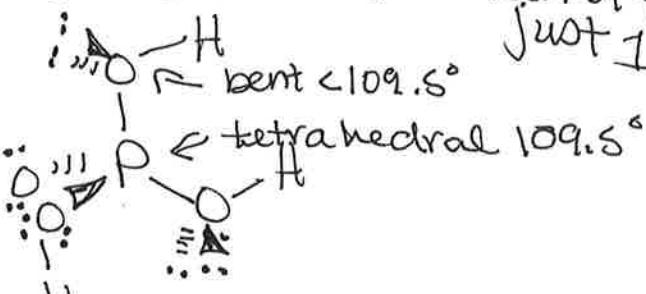
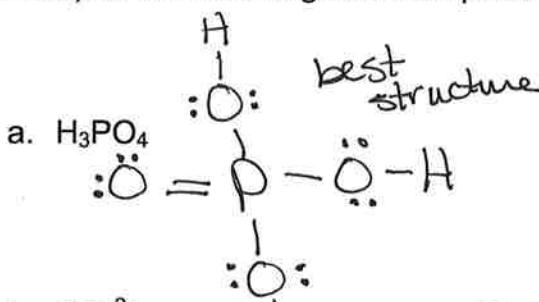
1. Is energy released or absorbed when a bond is formed? Why?

released

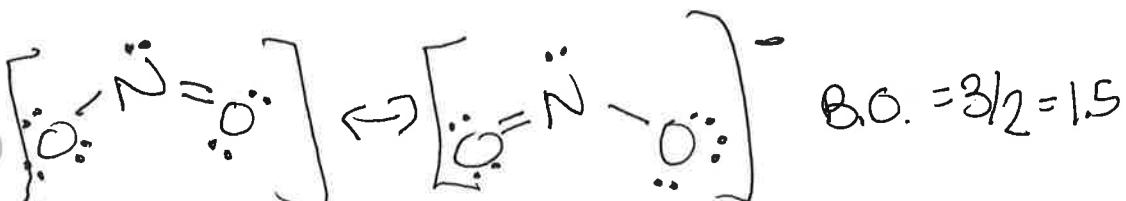


When a bond forms, energy is given off bc the bonding e⁻ are now attracted to

2. Draw valid Lewis dot structures (including equivalent resonance structures if relevant) for the following and then predict the geometry and bond angles:



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^- .



Since NO_2^- has a higher bond order (1.5) than NO_3^- , it will have a shorter bond.