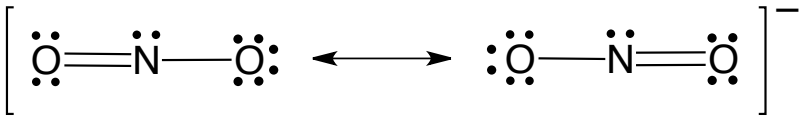
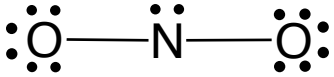
CONCEPT: RESONANCE STRUCTURES (SIMPLIFIED)

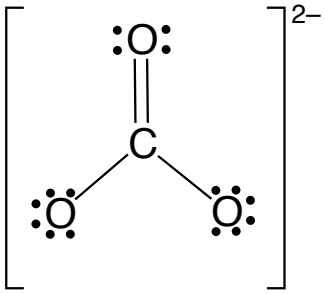
- A set of two or more valid Lewis Dot Structures for polyatomic species possessing at least _____ double bond(s).
  - □ In a *Resonance Structure* we have the movement of only _____ from either a double bond or lone pair.



  - □ **Double Sided Arrows:** used to show that resonance structures are _____ with each other.
  - □ The real structure is represented by the _____ of the resonance structures called the *resonance hybrid*.
  - □ **Resonance Hybrid:** A composite of all major resonance structures.
    - To draw the resonance hybrid we place a _____ anywhere a double bond has been.



EXAMPLE: Determine the remaining resonance structures possible for the carbonate ion, CO_3^{2-}.



PRACTICE: Determine the remaining resonance structures possible for the phosphate ion, PO_4^{3-}.