

Resonance:

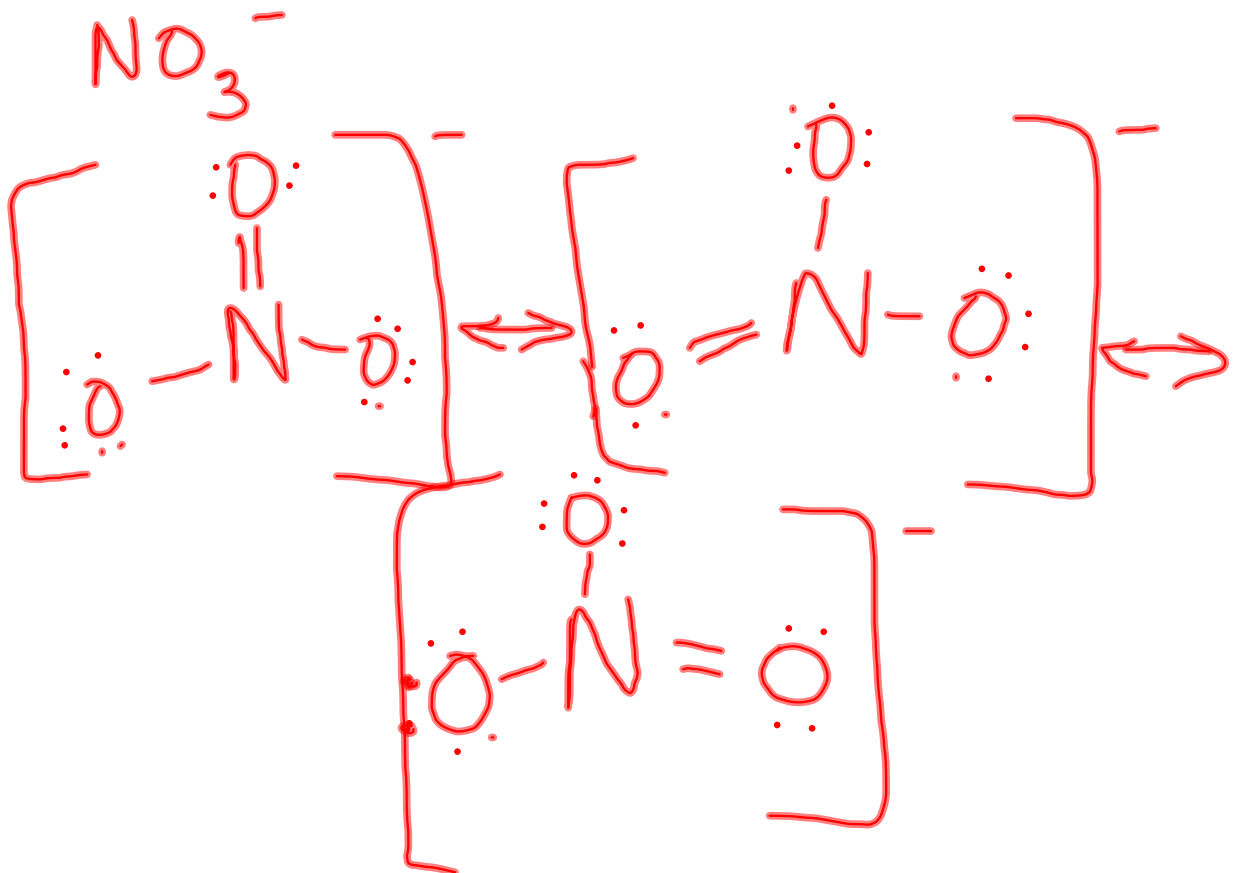
\rightleftharpoons equilibrium

More than one valid Lewis structure for an ion or molecule

Use \leftrightarrow to show that the actual structure is an average of the resonance structures

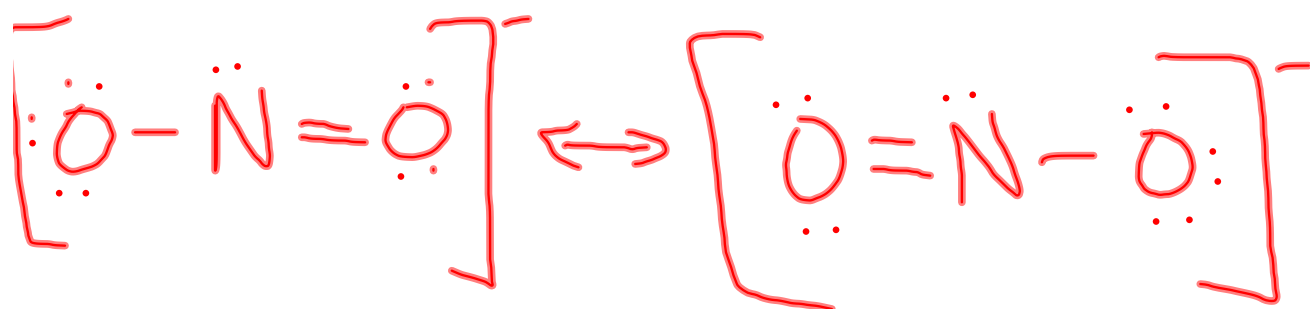
Electrons are delocalized (don't have one specific area) and can move throughout the entire structure

Draw the Lewis structures for NO_3^- and NO_2^- . Show them as resonance structures.



NO_2^- resonance

$$5 + 2(6) + 1 = 18$$



Nitrogen dioxide dimerizes to produce dinitrogen tetroxide.

Draw the Lewis structures and explain why this can happen.

