

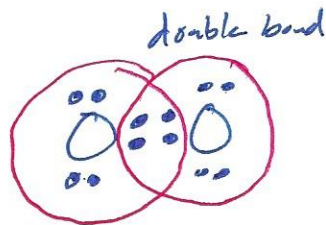


<u>Actual</u>	<u>Ideal</u>
$O = 6 \times 2 = 12$	$O = 8 \times 2 = 16$

$16 - 12 = 4$ bonding e^-

$12 - 4 = 8$ lone pair e^-

Everything wants 8 except for H & He

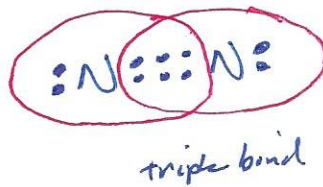


<u>Actual</u>	<u>Ideal</u>
$N = 5 \times 2 = 10$	$N = 8 \times 2 = 16$

$16 - 10 = 6$ bonding e^-

$10 - 6 = 4$ lone pair e^-

2 shared = single bond
4 shared = double bond
6 shared = triple bond



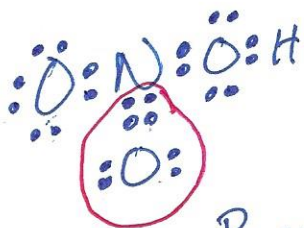
<u>Actual</u>	<u>Ideal</u>
$H = 1$	$H = 2$
$N = 5$	$N = 8$
$O = 6 \times 3$	$O = 8 \times 3$
<hr/>	<hr/>
$24e^-$	$34e^-$

$34 - 24 = 10$ bonding e^-

$24 - 10 = 14$ lone pair e^-

bond strength
triple > double > single

The center atom will be the least electronegative atom excluding H



because there is a double that can be in more than one place



Resonance structures