

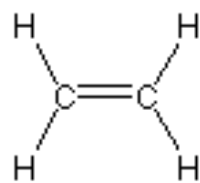
$$U(r) = -\frac{e^2}{4\pi\epsilon_0 r} + B \exp\left(-\frac{r}{\rho}\right)$$

$$U(r) = N_A \left[-\frac{\alpha e^2}{4\pi\epsilon_0 r} + B \exp\left(-\frac{r}{\rho}\right) \right]$$

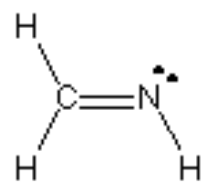
Moles - a recap



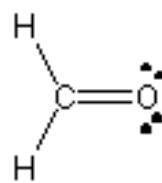
Covalent Bonds



ethene
(ethene)



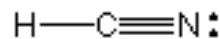
formaldehyde



formaldehyde



acetylene



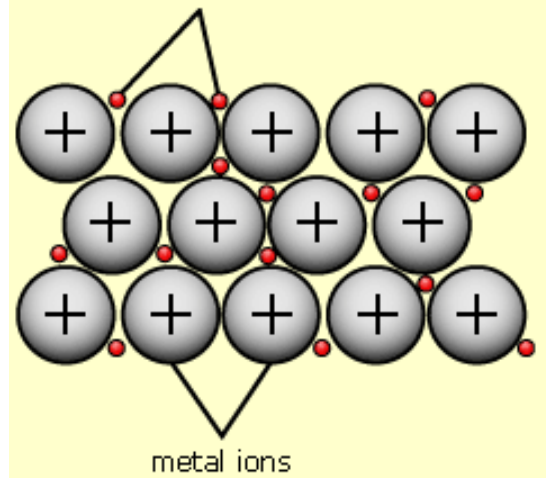
hydrogen
cyanide

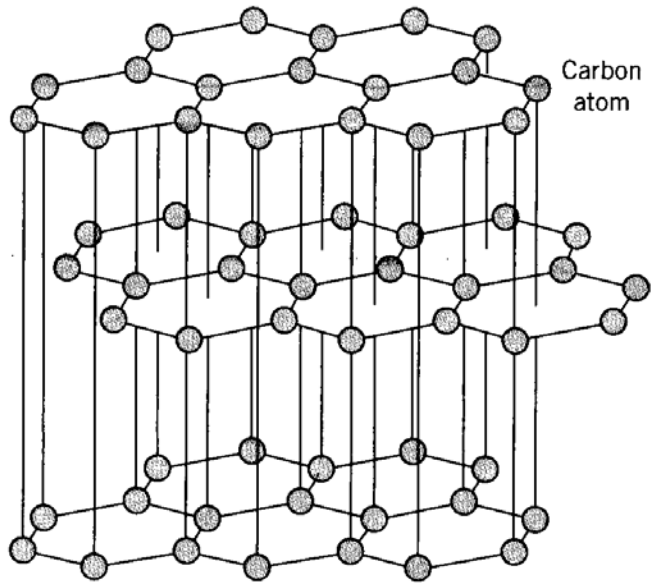


carbon
monoxide



free electrons from outer shells of metal atoms





Bulk graphite

