## Multiple bonds & polarity

Thursday, 15 February 2024 9:30 am

Decreasing length - more electrostatic attraction - increase the strength

## Repulsion:

Lone pair - lone pair - lone pair - bonding pair - bonding pair - bonding pair

## Polar covalent bonds

- Sharing electron in covalent bond is not even. Some element have stronger attraction to electrons this depends on the electronegativity more electronegativity more share (electronegativity is depends on the proton) (this result in dipole and a polar bond)
- Electronegativity difference between that two element decide whether the polar bond is formed If there is a difference in electronegativity the bond is polar however, if there's little difference between electronegativity, thus the compound non polar.

: N = N: electron are equally shared

## Polar covalent bond

- Element do not share the electron in covalent bond equally, this is due to the electronegativity of the element, more electronegativity means stronger attraction to electron therefore, the polar bond/dipole bond form
- If the difference between the electronegativity is small, then the bond is not form