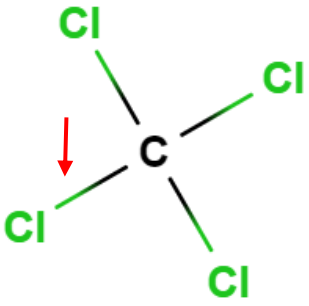
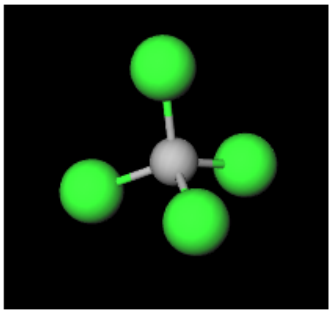
**MONISTE: Kovalenttisen sidoksen poolisuus, Molekyylin poolisuus, molekyylien sitoutuminen**

**Alla on esitetty kahdeksalle eri molekyylille rakennekaava ja kolmiulotteinen rakennemalli. Vastaa jokaisen molekyylin kohdalla seuraaviin kysymyksiin:**

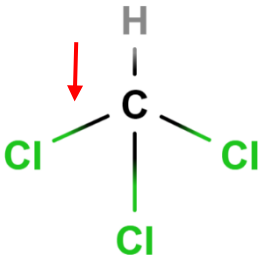
1) **Onko molekyylin rakennekaavaan nuolella ↓ merkitty kovalenttinen sidos poolinen vai pooliton?**
2) **Onko molekyyli kokonaisuutena poolinen vai pooliton?**
3) **Millaisilla sidoksilla saman aineen molekyylit sitoutuvat toisiinsa**

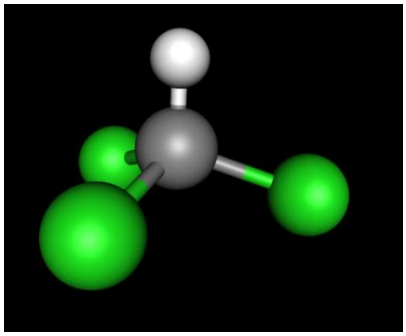
**a)** Tetrakloorimetaani $CCl_4$



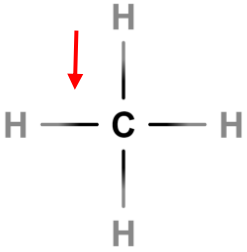



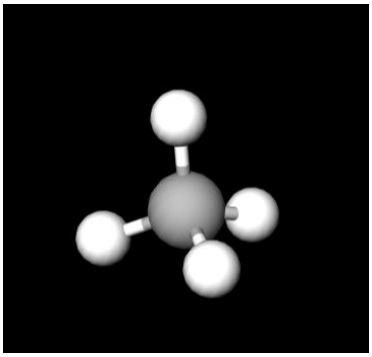
**b)** Trikloorimetaani $CHCl_3$



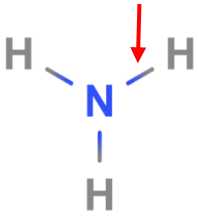



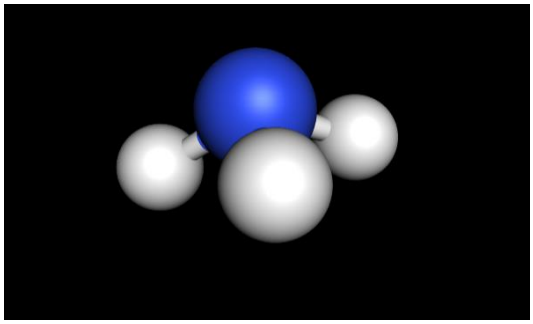
**c)** Metaani $CH_4$



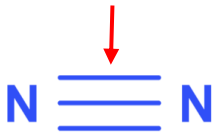



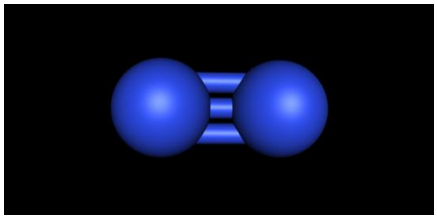
**d)** Ammoniakki $NH_3$



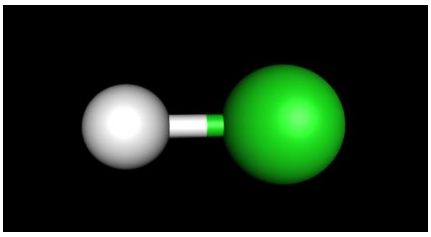



**e)** Typpi $N_2$

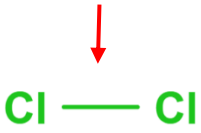


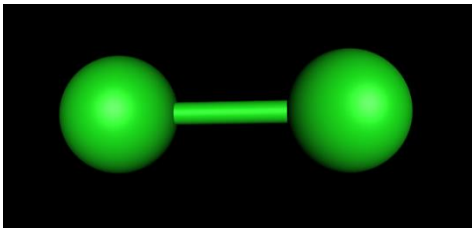



**f)** Vetykloridi HCl

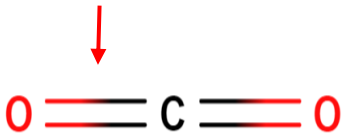



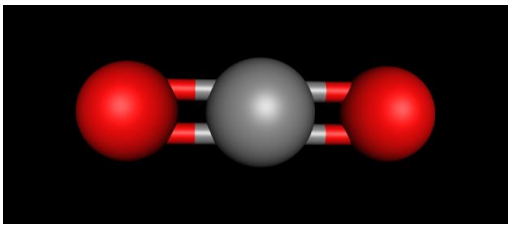
**g)** Kloori $Cl_2$



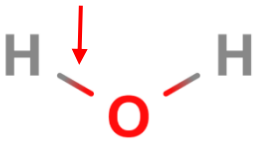



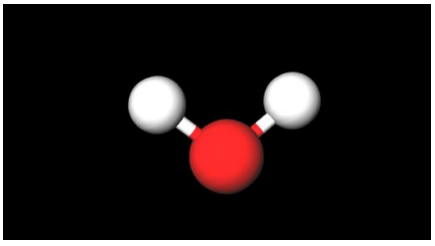
**h)** Hiilidioksidi $CO_2$



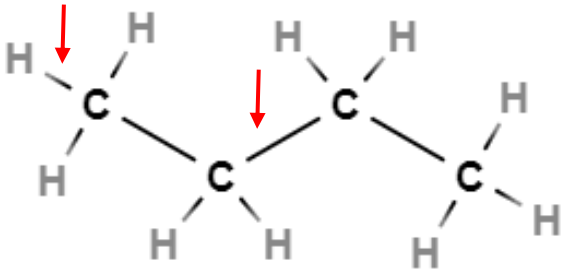



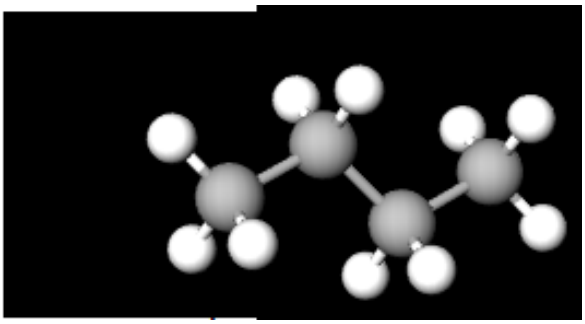
**i)** Vesi $H_2O$



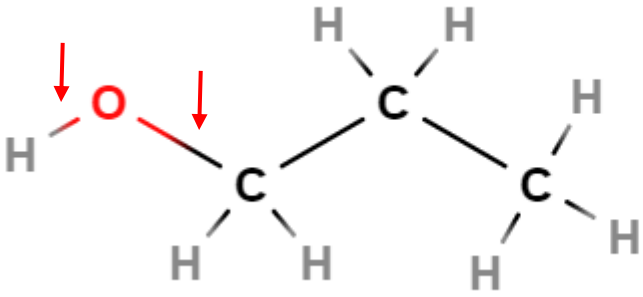



**j)** Butaani $CH_3CH_2CH_2CH_3$





**k)** Propanoli $CH_3CH_2CH_2OH$



**l)** Propaanihappo $CH_3CH_2CHOOH$