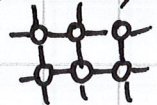
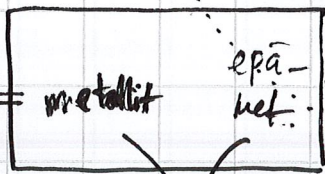


atomihila / kovalenttinen hila (timantti)



metalli metallisidos *vahva*



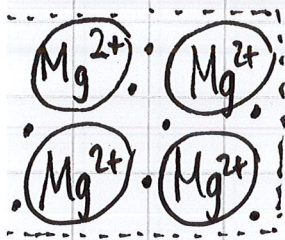
kovalenttinen *vahva* sidos, molekyyliyhdiste



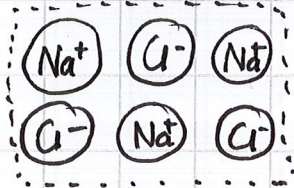
ei oo elektroneg. eroa TAI Symmetria

pooliton molekyyli

dispersio-voimat molekyylien välillä *heikoin*



ioniyhdiste ionisidos *vahva*



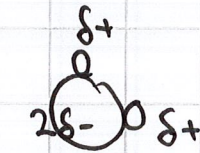
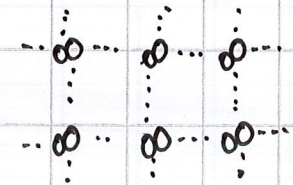
elektroneg. eroja JA epäsymmetria

poolinen molekyyli

dipoli-dipoli-sidos *heikompi*

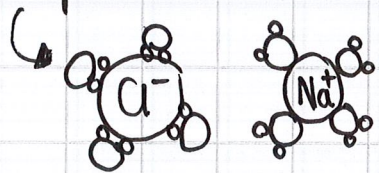
TAI { F-H, O-H, N-H } *vetysidos heikko*

MOLEKYLIHILA



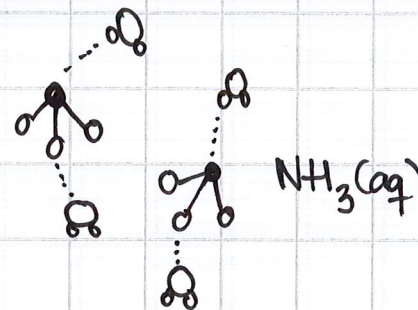
vesiliuos (aq)

ionidipolisidokset *sähköä*



akvaionit Na+(aq) Cl-(aq)

vesiliuos ei johda sähköä



$$\frac{s. 105}{4.8} \text{ (kpl 4.1)}$$

$$\frac{s. 124}{4.44-4.47} \text{ (kpl 4.3)}$$

$$\frac{s. 125-127}{\text{kpl 4}} \text{ kertaus-tehtävät}$$