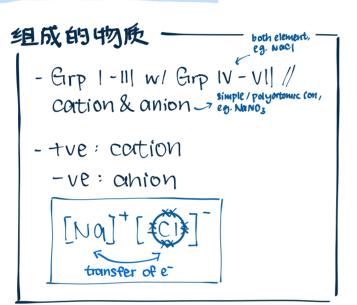


1 What is a bond?

- Strong electrostatic force / positively & negatively charged species 与静电引力 (5 物质

2 Ionic bond



DIRECTIONALITY -

- non-directional



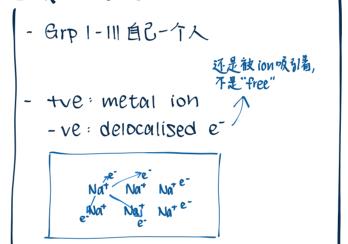
Each ion is attracted by multiple oppositely charged ions.

FORMATION (MgClz) -

- I Mg atom loses 2 outermost shell $e^- \rightarrow Mg^{2+}$
- 2 C1 atoms of each accept 1 e⁻ to its outermost shell → C1⁻
- ⇒ transfer of e⁻ ⇒ strong 1B% them

3 Metallic bond

组成的物质 ——



DIRECTIONALITY-

- non-directional

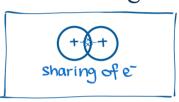


Each cation | e can move is bonded to | to any place murtiple e. in the e shell.

4 Covalent bond

组成的物质—

- Grp IV VII 自點组合
- tve: nucleus ve: bonding e



DIRECTIONALITY -

- directional



If bonding e moves out of the overlapping area of e shells, the bond breaks.

FORMATION (CH4) -

- 1 C atom has 4 outermost Shell e, of each shares 1 e from H atom
- ⇒ Strong CB :/ them

