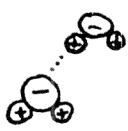


composed of :	<u>molecular</u> molecules	<u>ionic</u> ions	<u>atomic</u> atoms	<u>metallic</u> atoms	<u>Network</u> <u>covalent</u> atoms
lattice sites : in crystal	molecules	ions	atoms	atoms	atoms
Bonding :	intermolecular forces (IMF)	ionic bonds	IMF	"metallic sea electrons"	covalent
Bp :	low	high	low	high	high
mp :	low	high	low	high	high
Examples :	H ₂ O mp = 0°C NH ₃ mp = -77°C CS ₂ mp = -110	NaCl mp = 801°C	Ne, Kr, Cl ₂ ↓ Cl ₂ mp = -151°C	Fe mp = 1109°C	→ mp = 3900°C C(s) diamond SiO ₂
conductivity :	not	only when melted or molten	not	solid and liquid is conductive.	not
Bonding Example :		$\text{Na}^+ \text{Cl}^-$ 		