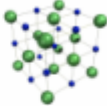

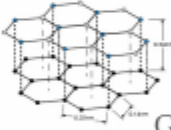
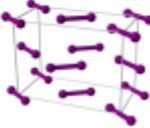
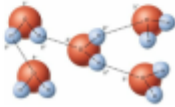


Lattice structures of solids

Introduction: The lattice structures of solids are dependent on the type of bonding in the compound and also the intermolecular forces present.

Structure	Examples	Bonding	Melting Point	Structure Diagram
Giant Ionic	NaCl, MgO (Group I and II)	Ionic	High	 Sodium Chloride
Giant Metallic Lattice	Cu (Group III and transition Elements)	Metallic	High	 Copper
Macromolecular	Diamond, Silicon di oxide, Graphite	Network of covalent bonds	High	 Graphite
Simple Molecular	Iodine, Sulphur, Phosphorous (Group V and VI)	Covalent (Intramolecular) VanderWaal (Intermolecular)	Low	 Iodine
Hydrogen Bonded Solids	Ice	Covalent and Hydrogen Bonding	High	 Ice

https://www.youtube.com/watch?v=Rm-i1c7zr6Q&feature=emb_logo

https://www.youtube.com/watch?v=FKTsQOpLwdE&feature=emb_logo

<https://prezi.com/umty6nanlq4r/lattice-structure-of-crystalline-solids/>

<https://quizlet.com/36351934/crystal-lattice-structure-flash-cards/>