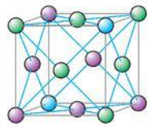
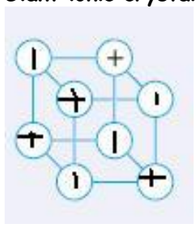
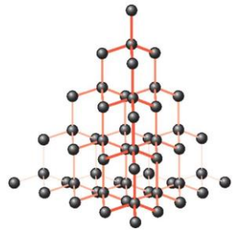
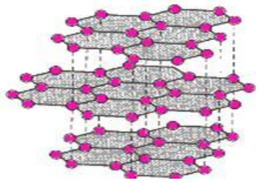
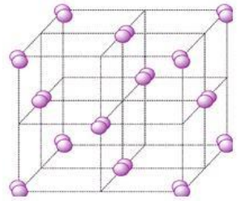
INTRAMOLECULAR BONDING BETWEEN ATOMS						
	METALLIC	**IONIC**	**COVALENT**			
			Giant Macromolecular		**Simple Molecules**	**Co-ordinate Bonds**
Elements involved						This will be taught in year 12 lessons
Definition						
Bonding Diagram						
Crystal structure	**Giant metallic crystal lattice**  **Eg Mg & Zinc has a hexagonal close packed structure** **Cubic close pack structure eg Gold, copper, aluminium**	**Giant ionic crystal lattice**  3 dimensional structure = an ionic lattice Creates a cubic close pack structure non directional electrostatic forces	**Giant Macromolecular Crystal** **(Macromolecular = Huge structure made of covalent bonds) Diamond & Graphite are allotropes of carbon** **Diamond** 	**Graphite** 	**Simple Molecular crystals** **Eg Iodine** 	
Melting Points						
Electrical Conductivity						
Strength						
Malleable & Ductile **Other**						