• **Crystal Structures**
  - Atoms of one or more elements.
  - Classified → 6 groups
Lattice System
Unit Cell

Cubic Lattice

Angles $\alpha$, $\beta$, $\gamma$
Graphite
Hexagonal Lattice system

- Soft
- Opaque
- Good conductor
- Lubricant
- Sp. gravity = 2.2
- More stable

Diamond
Isometric Lattice System

- Hard (Moh’s Scale-10)
- Transparent
- Insulator
- Ultimate Abrasive
- Sp. Gravity = 3.5
- Less stable
Bowen’s reaction

HOT MAGMA
Rock Cycle

Igneous Rocks
Metamorphic Rocks
Sedimentary Rocks
Lithification --> Rock Forming

A
Compaction : Pore space is gradually reduced

B
Cementation : Pore space is cemented with chemical deposits