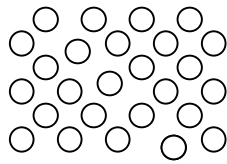


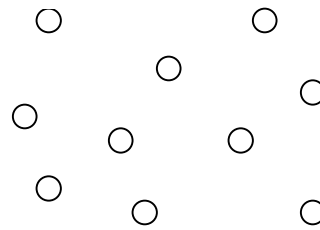
**PURE SOLID**



**ENERGY  
(HEAT)**

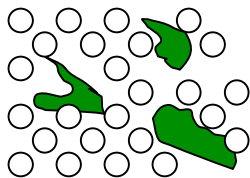


**LIQUID**

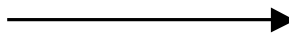


- **PERFECT CRYSTAL LATTICE**
  - **MOLECULES FIT TOGETHER PERFECTLY**
  - **MAXIMUM FORCES OF ATTRACTION**
  - **MAXIMUM STABILITY**
  - **REQUIRES A CERTAIN AMOUNT OF ENERGY TO DISRUPT LATTICE**
  - **TEMPERATURE AT WHICH LATTICE BREAKS APART IS THE MELTING POINT**
- 

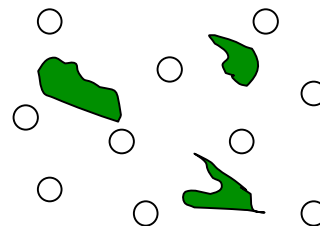
**IMPURE SOLID**



**< ENERGY  
(< HEAT)**



**LIQUID**



- **IMPERFECT CRYSTAL LATTICE**
- **LOWER ATTRACTIVE FORCES**
- **LESS STABILITY**
- **REQUIRES A LOWER AMOUNT OF ENERGY TO DISRUPT LATTICE**
- **LOWER MELTING POINT**

**MP (IMPURE) < MP (PURE)**

**MP RANGE (IMPURE) > MP RANGE (PURE)**