

## Liquids and Solids

### I. Intermolecular Forces

- dipole – dipole forces
- dispersion (London) forces
- hydrogen bonds

### II. Phase changes

- vapor pressure
- boiling point
- freezing / melting point
- heat of phase transition
- Clausius – Clapeyron equation (relationship between P and T)
- phase diagram

### III. Liquid phase

- surface tension
- viscosity
- water – the global solvent

### IV. Solid phase

- amorphous solids
- crystalline solids
  - types of crystalline solids
  - physical properties
  - unit cells