

Reflection & Mirrors Study Guide

I. Introduction to Reflection

- **Reflection:** The bouncing back of light when it strikes a surface.
- **Specular Reflection:**
 - o Reflection from a smooth surface.
 - o Reflected rays are parallel.
 - o Forms clear images.
 - o Example: Mirrors.
- **Diffuse Reflection:**
 - o Reflection from a rough surface.
 - o Reflected rays are scattered.
 - o Does not form clear images.
 - o Example: Paper, walls.

II. Laws of Reflection

- **Law of Reflection:**
 - o The angle of incidence (θ_i) is equal to the angle of reflection (θ_r).
 - o The incident ray, the reflected ray, and the normal lie in the same plane.
- **Normal:** A line perpendicular to the reflecting surface at the point of incidence.
- **Angle of Incidence (θ_i):** The angle between the incident ray and the normal.
- **Angle of Reflection (θ_r):** The angle between the reflected ray and the normal.

III. Types of Mirrors

- **Plane Mirrors:**
 - o Flat reflective surfaces.
 - o Form virtual, upright, and same-size images.
 - o Images are reversed left to right.
- **Concave Mirrors:**
 - o Curved inward.
 - o Can form both real and virtual images.
 - o Real images are inverted.
 - o Virtual images are upright and magnified.
 - o Used in telescopes, makeup mirrors, and headlights.
- **Convex Mirrors:**
 - o Curved outward.
 - o Always form virtual, upright, and smaller images.
 - o Provide a wider field of view.
 - o Used in car side mirrors and security mirrors.

Study Guide Solutions Reflection And Mirrors

Bo Lou

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Fundamentals of Organic Chemistry,

Textbook, Study Guide and Solutions Manual T. W. Graham Solomons,1996-08-15 A realistic approach to the study of mechanisms The book addresses real functional group chemistry with an emphasis on the biological environmental and medical applications of organic chemistry

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