PHY1024

# Law of Reflection

The angle of reflection equals the angle of incidence.

Diagram, schematic

Description automatically generated

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<https://commons.wikimedia.org/wiki/File:Specular-Reflection-1.png>

is angle of incidence; is angle of reflection.

# Speed of Light

Speed of light in vacuum is m/s.

# Law of Refraction

The changing of a light ray’s direction (loosely called bending) when it passes through variations in matter is called refraction.

**Index of refraction**

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is index of refraction, is speed of light, is the observed speed of light in the material.

**Snell’s Law**

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and are the indices of refraction for medium 1 and 2, and and are the angles between the rays and the perpendicular in medium 1 and 2.