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## Optics - The Study of Light



| Reflection | Light reflects at shiny <br> boundaries we call mirrors. |
| :--- | :--- |

Normal - an imaginary line $90^{\circ}$ (perpendicular to a surface.

Angle of Incidence - the angle between the incoming ray and the normal.

Angle of Reflection - the angle between the outgoing ray and the normal.


Light reflects at shiny
boundaries we call mirrors.

## Object vs. Image

The object is what you are looking at: the actual thing.

The image is what you think you see: the object enlarged, reduced, or moved .

Every lens or mirror has a place where all of the parallel rays will meet. This is known as the focal point or focus.


## Straight Lines

Mirrors and lenses can make things look bigger or smaller because our eyes always think that light comes from straight lines, even if they have been refracted or reflected.


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