

# Reflection

## Reflection

### Objectives

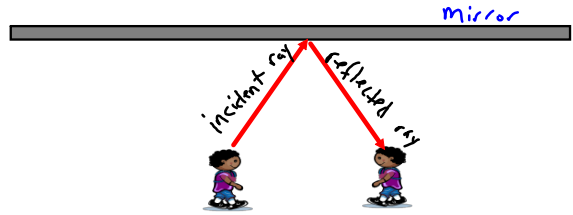
Define Reflection.

Draw diagrams of reflection labeling the normal line, angle of incidence & angle of reflection.



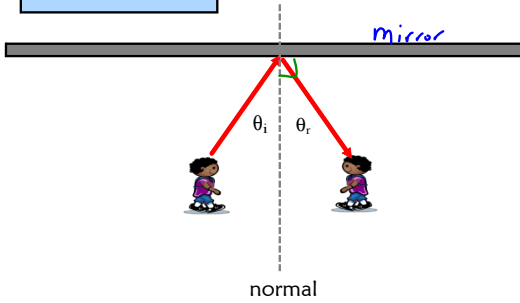
## Reflection

light wave strikes an object and bounces off  
symmetrical and reversible



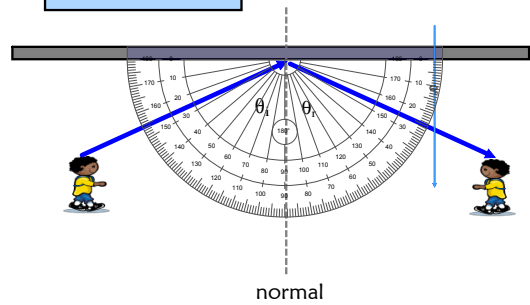
## Law of Reflection

$$\theta_{\text{incidence}} = \theta_{\text{reflection}}$$

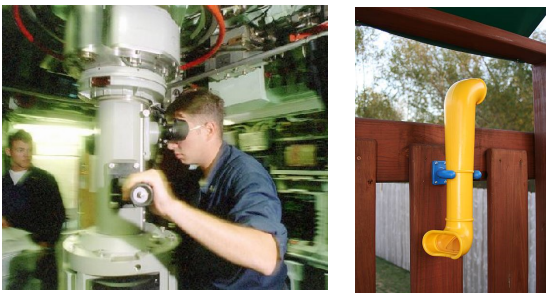


## Law of Reflection

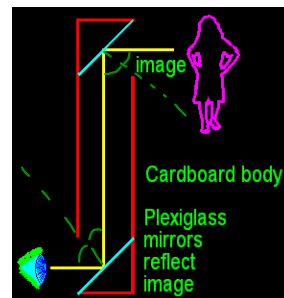
$$\theta_{\text{incidence}} = \theta_{\text{reflection}}$$



## Periscope

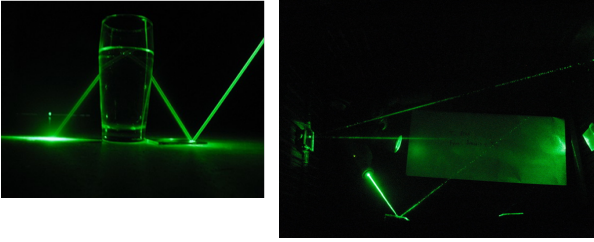


## Periscope

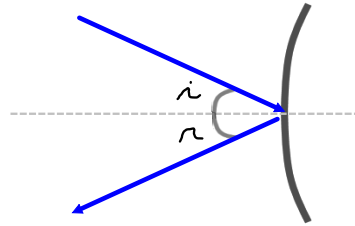


# Reflection

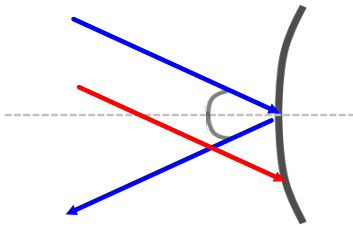
## Mirrors



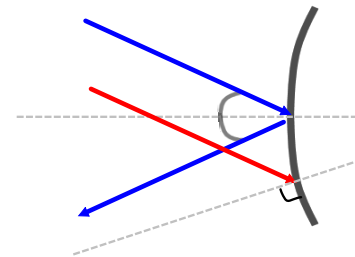
## Reflection: Convex Mirror



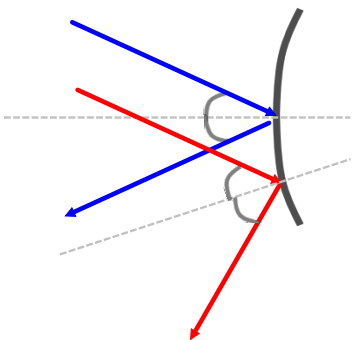
## Reflection: Convex Mirror



## Reflection: Convex Mirror

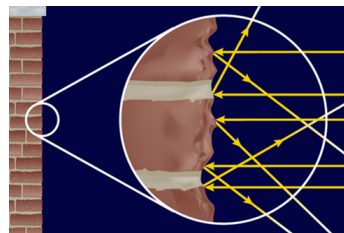


## Reflection: Convex Mirrors



## Regular vs. Diffuse Reflection

- Reflection of light waves from a smooth surface is regular reflection.
- Reflection of light from a rough surface is diffuse reflection.



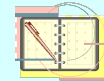
# Reflection

## Reflection of Sound

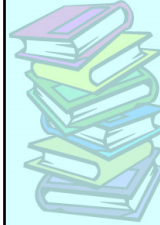
- Echo is reflected sound from a distance.
- Reverberations are multiple reflections.



## Assignments . . .



- Begin Chapter 22 Homework #1 - 3



## Attachments

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notebook.galleryitem