Light Vocabulary Mini Lecture

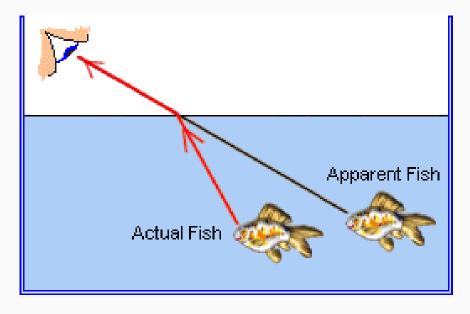
What can light do?

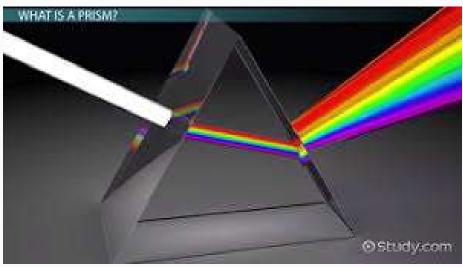
Reflection light bounces off a surface depending on the angle. Think throwing a basketball at a wall

Refraction change in direction when light goes from one material to another (ex. Air to water)



Refraction





Object Transparency

Transparent describes material that allow all of the light to pass through

Translucent some light goes through

Opaque no light passes through

Objects- What type of transparency?

Frosted Window

Mirror

Window

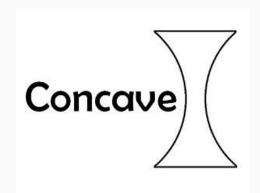
Book

Water

Lenses Shape



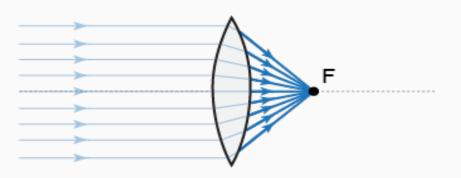
Convex lens lens is thicker in the middle, curves out



Concave lens thin in the middle, curves in

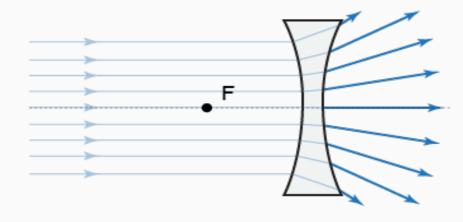
Converging vs. Diverging Lenses

Converging lens



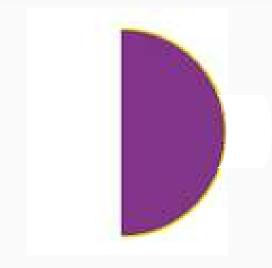
Incident rays parallel to the optical axis converge toward the far focal point.

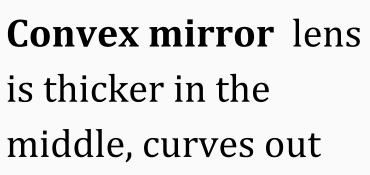
Diverging lens



Incident rays parallel to the optical axis diverge away from the near focal point.

Mirror Shape

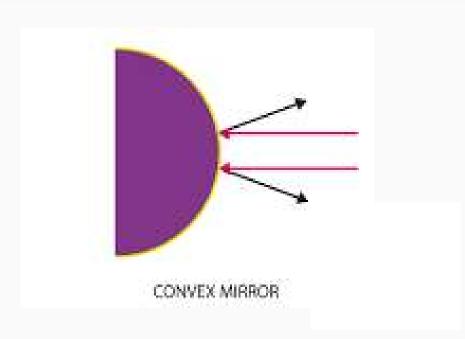


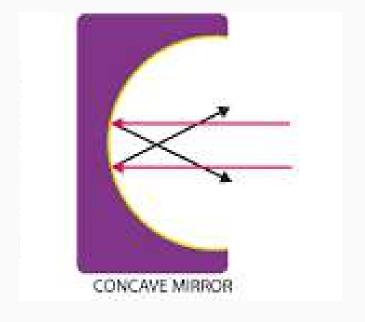




Concave mirror thin in the middle, curves in

Diverging vs. Converging Mirrors





Light rays reflect outwards

Light rays reflect inwards