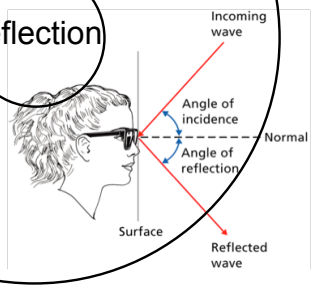
object or wave

bounces back

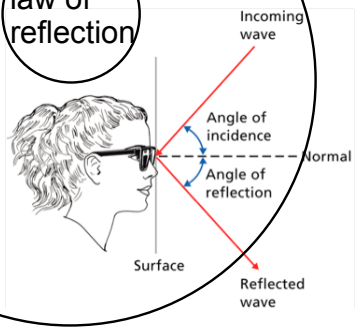
reflection




all laws obey this

law of reflection

angle of incidence = angle of reflection




clear one side, silvery other side

flat sheet of glass

plane mirror

mirrors

a copy made by reflection or refraction

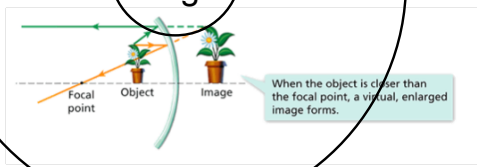
lenses

image

the image you see in a plane mirror

the closer you get the bigger it is.

virtual image

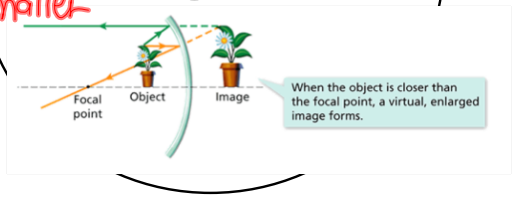



a mirror than curves inward

wider

makes image smaller

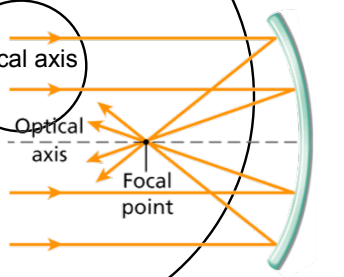
concave mirror




imaginary line

divides a mirror in half

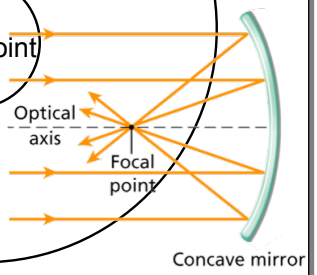
optical axis




a point

where rays parallel to the optical axis meet

focal point



not real object

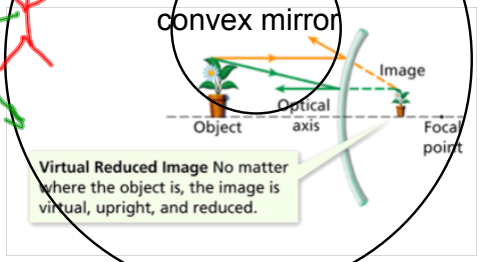
formed when rays actually meet

real image

yeah

mirror with a surface that curves out

convex mirror



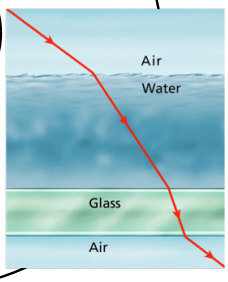

300,000,000 m/s in a vacum

bending light

change of speed

looks like a change of angle

refraction



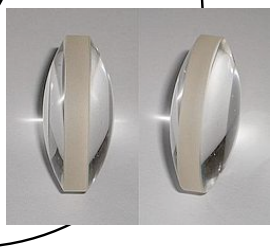

curved piece of glass

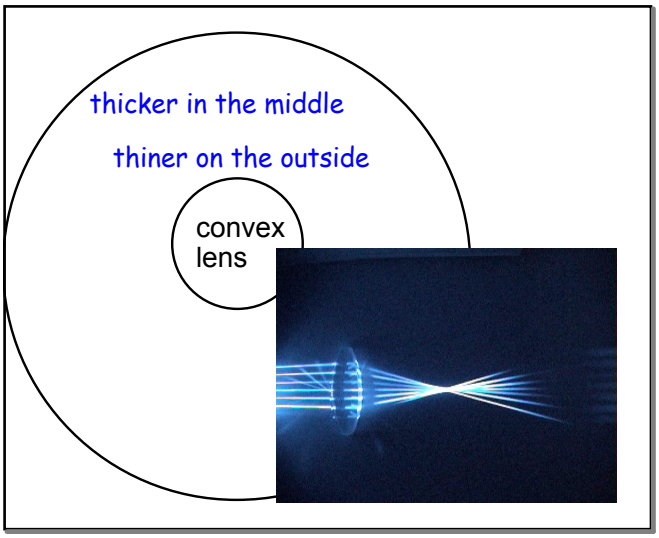
plastic

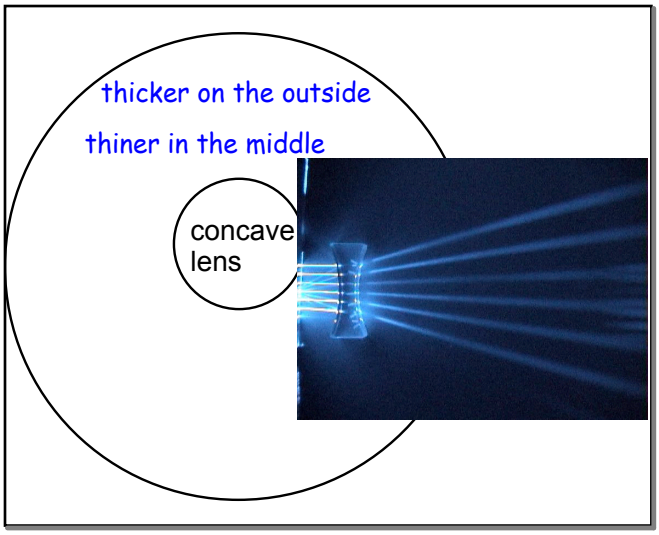
acrylic

lens

it refracts light




thicker in the middle
thiner on the outside
convex lens


thicker on the outside
thiner in the middle
concave lens