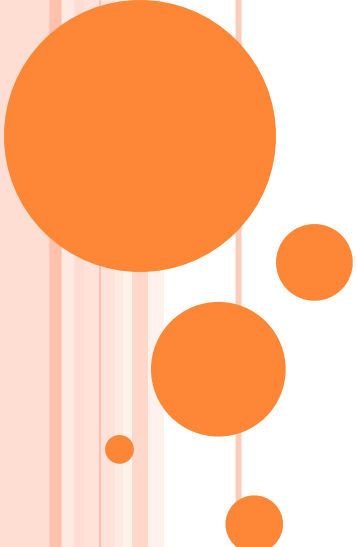


LIGHT



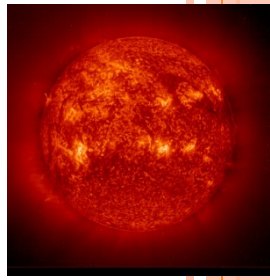
You will start writing when
you see the number 1

LIGHT

- We see things every day, from the moment we get up in the morning until we go to sleep at night.
- We look at everything around us using light.
- Without light, you wouldn't see anything at all.
- There are two types of light: natural light or artificial light.



NATURAL LIGHT



- The most important source of natural light is the sun.
- The sun gives the earth light and energy.
- The moon and stars receive light from the sun and reflects it to the earth.
- A firefly also produces light.



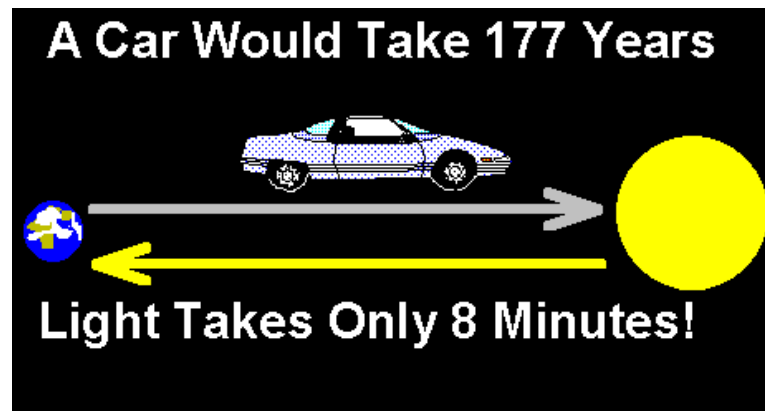
ARTIFICIAL LIGHT

- Artificial light is light that is made by people, or man-made.
- This includes candles, kerosene lamps, flashlights, and light bulbs.



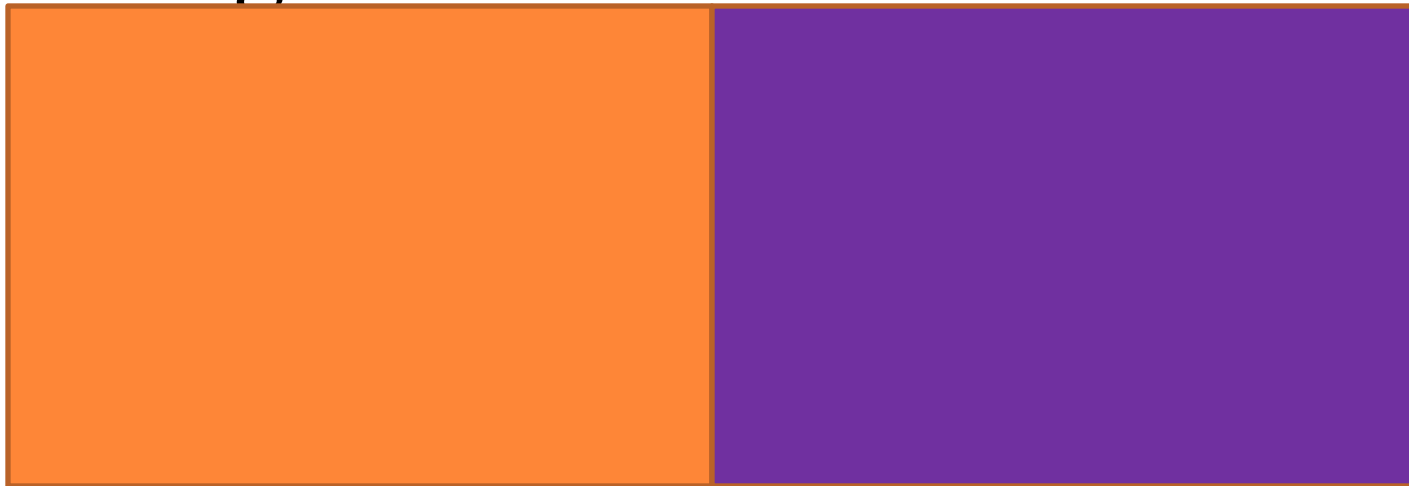
LIGHT

- Light is a kind of **energy** that travels in waves.
- Light can pass through some things, but not others.
- Light travels very fast and in straight lines.



1. LIGHT

- Travels in straight lines as long as the material that the light travels through does not change



2. PHOTON

A particle of light

Massless “no rest” particle

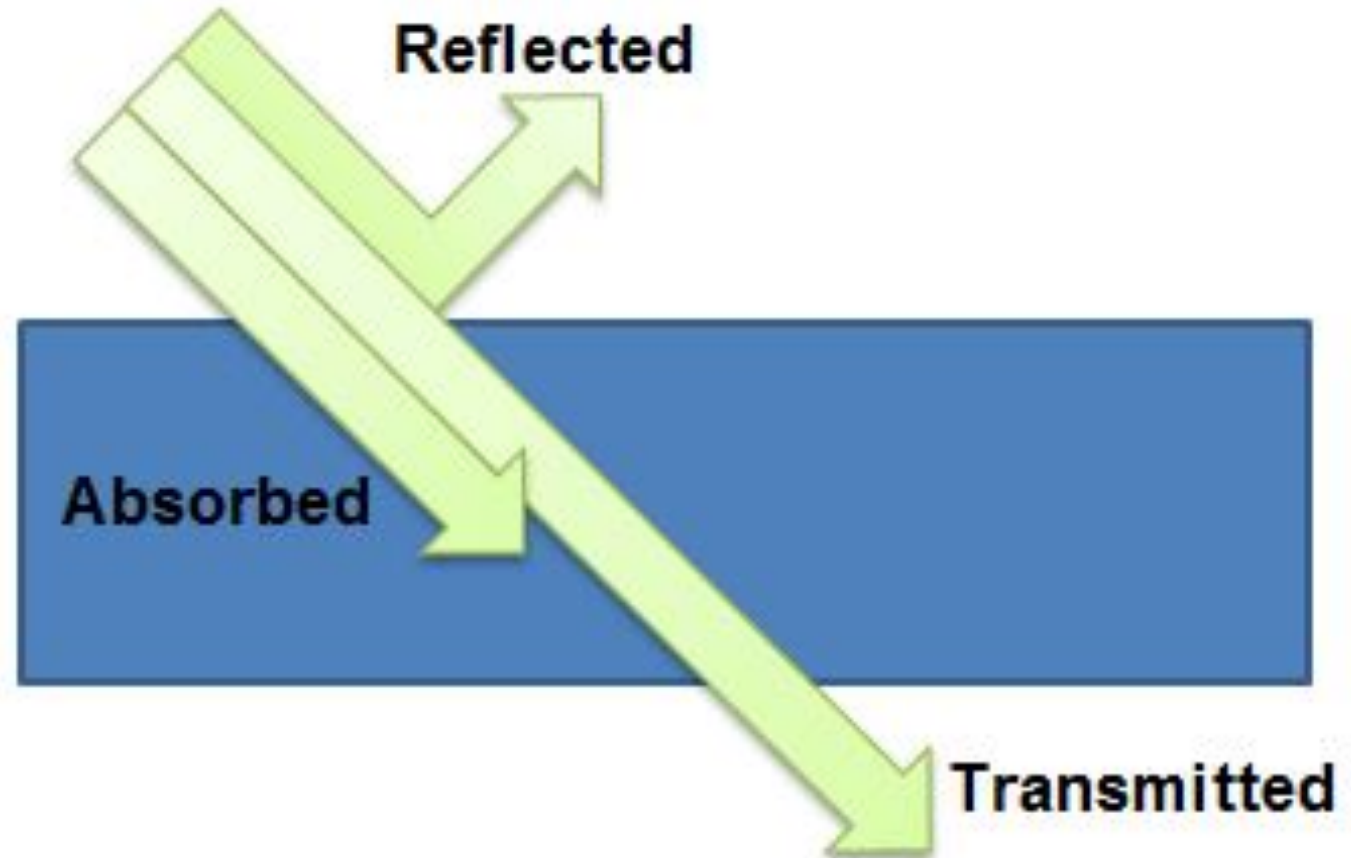
- Travels 186,282 miles per
second (Speed of light)

(it has no mass - that's why it
travels so fast)



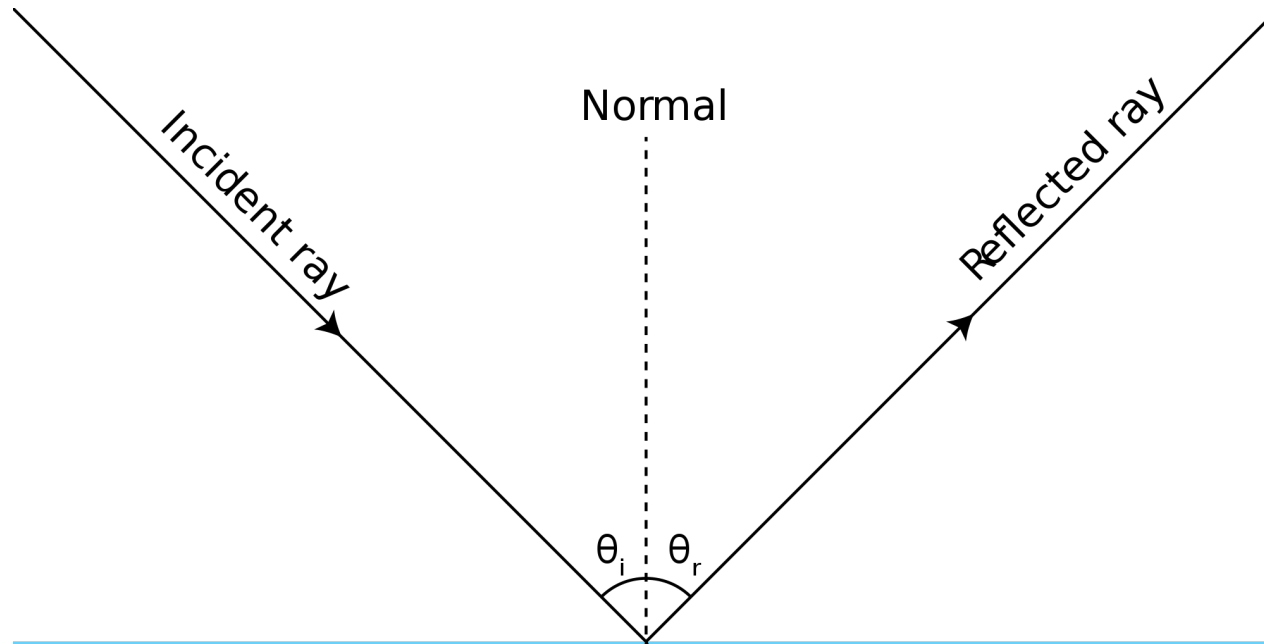
3. 3 WAYS THAT LIGHT INTERACTS

- Reflected,
transmitted,
absorbed



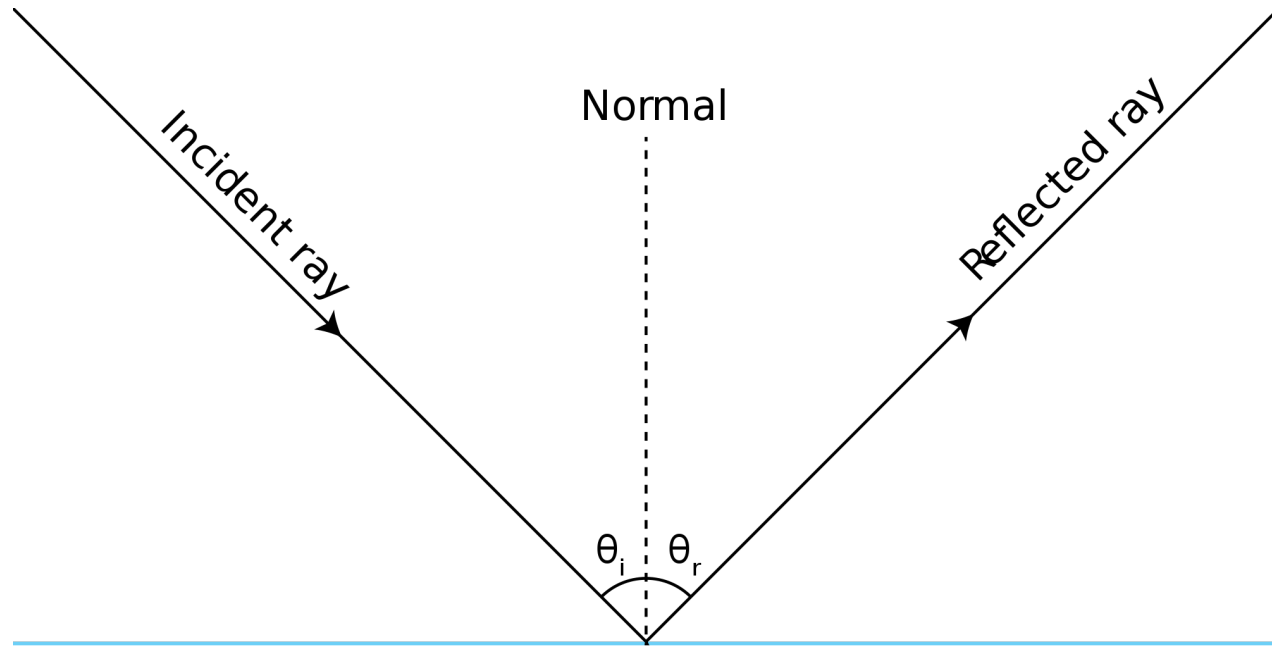
4. INCIDENT RAY

- Incoming light ray

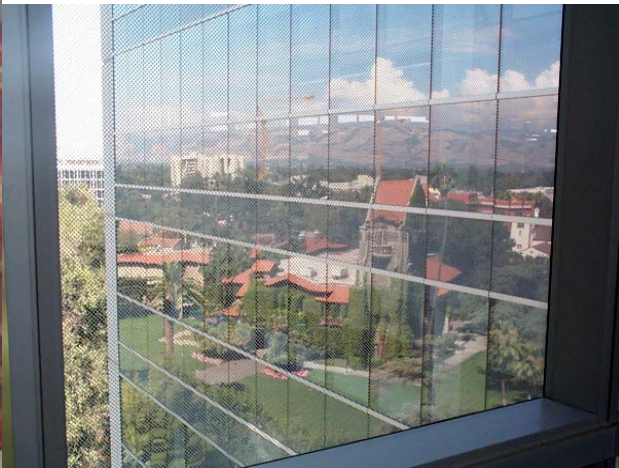


5. REFLECTION

- The bouncing back of rays when they hit an object

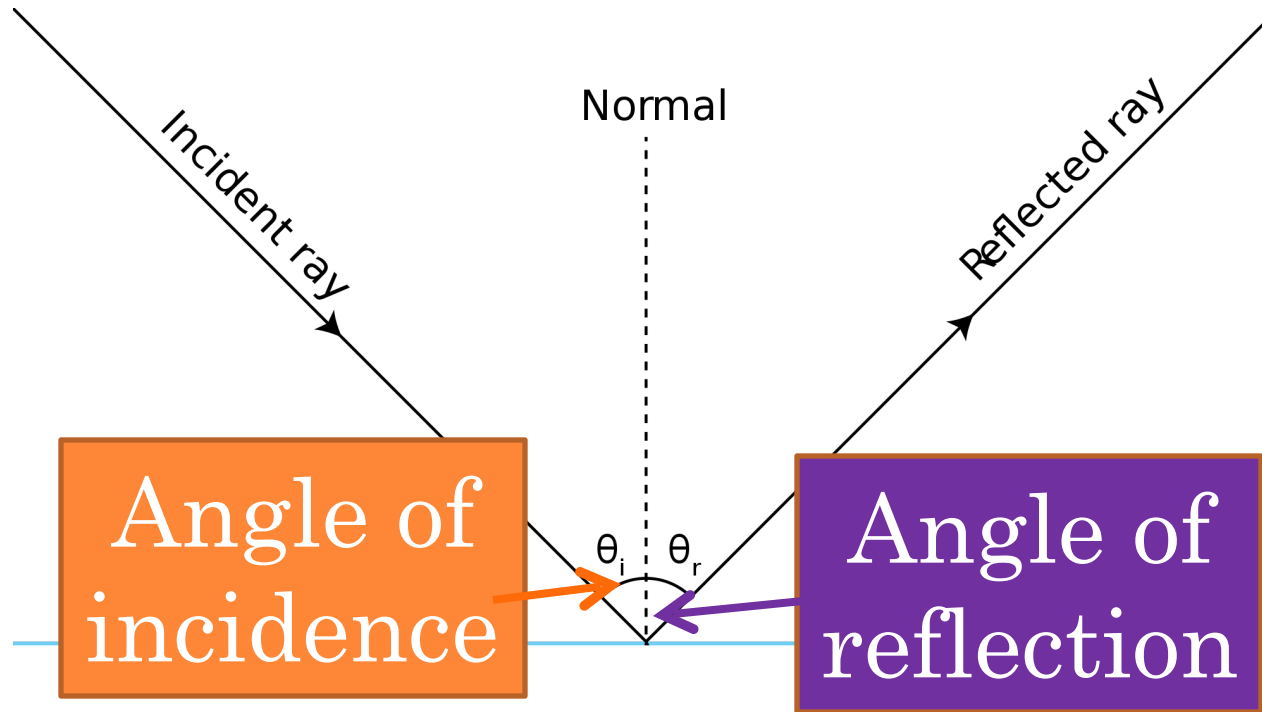


RE REFLECTIONS



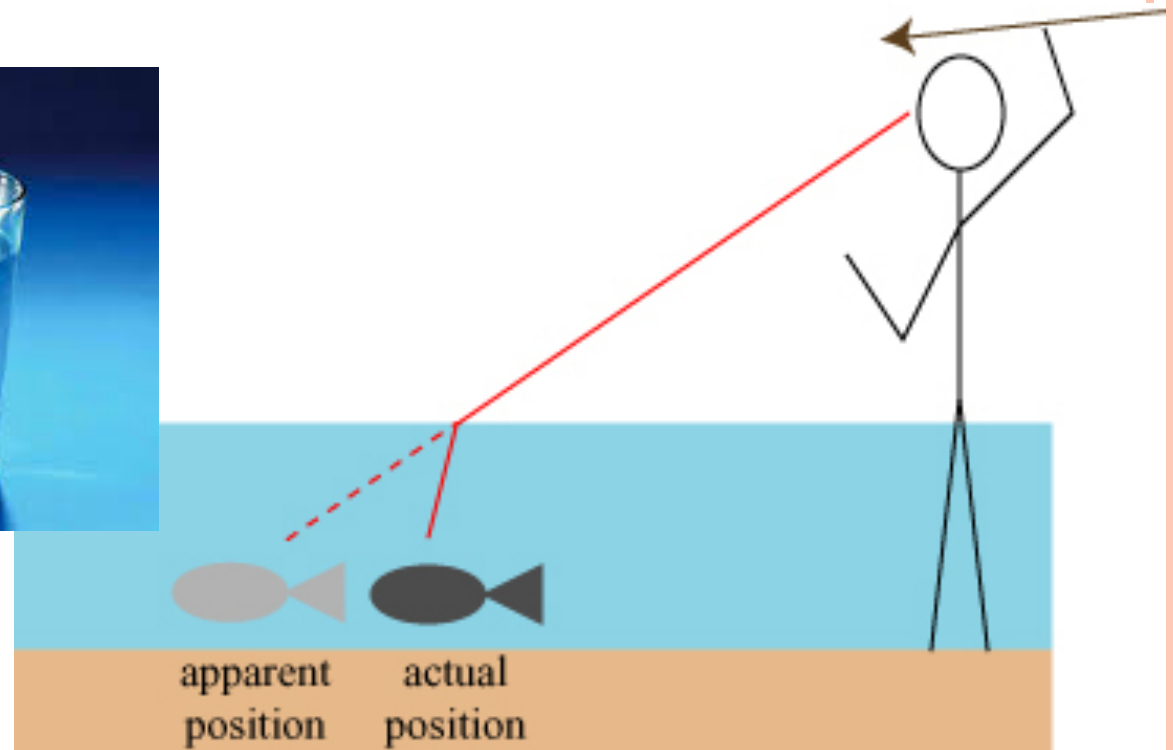
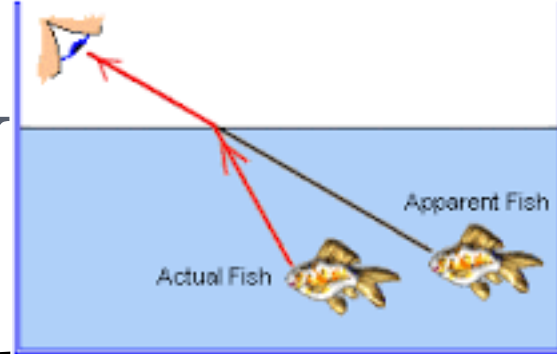
6. LAW OF REFLECTION

- Angle of incidence = Angle of reflection



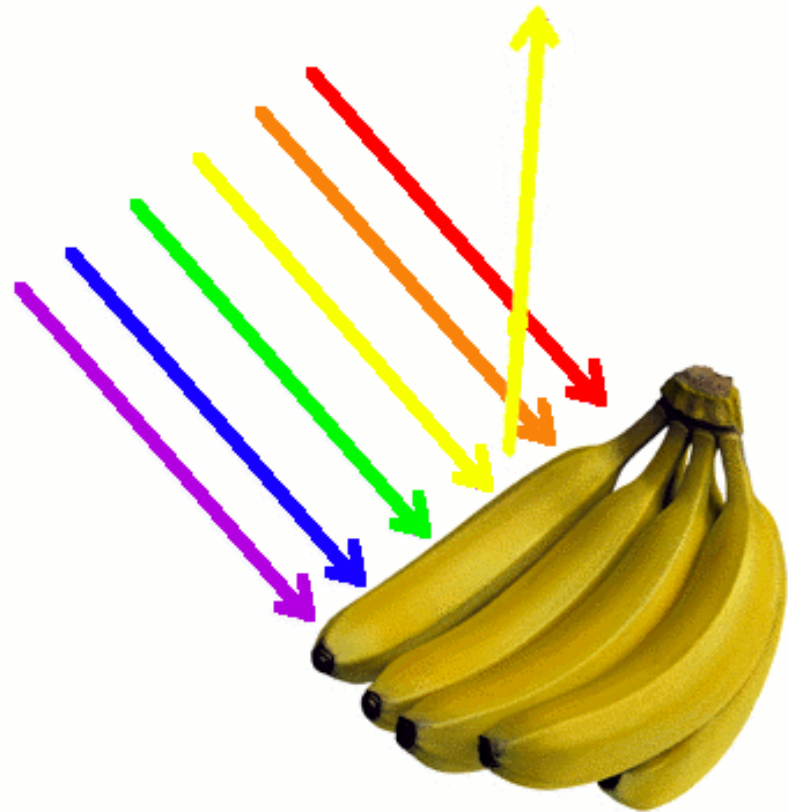
7. REFRACTION

- Light rays change in speed causing the rays to bend, or change direction



8. COLORS OF OPAQUE OBJECTS

- The color of the object is the color reflected



9. WHITE LIGHT

- All the colors of light are reflected

10. THE COLOR BLACK

- All the colors of light are absorbed

