

# Light <sup>artificial light</sup>

natural light

Convex →  
Concave →

## Energy



1. Energy that can be sensed by the eye.
2. Light travels in straight lines through air, water and space.

### Refraction

Light Bends when passing from one medium to another.

Light Bends

### Reflection

Light bounces off shiny surfaces: mirrors, foil, metal.

### Prism

Visible light

Red  
Orange  
Yellow  
Green  
Blue  
Indigo  
Violet

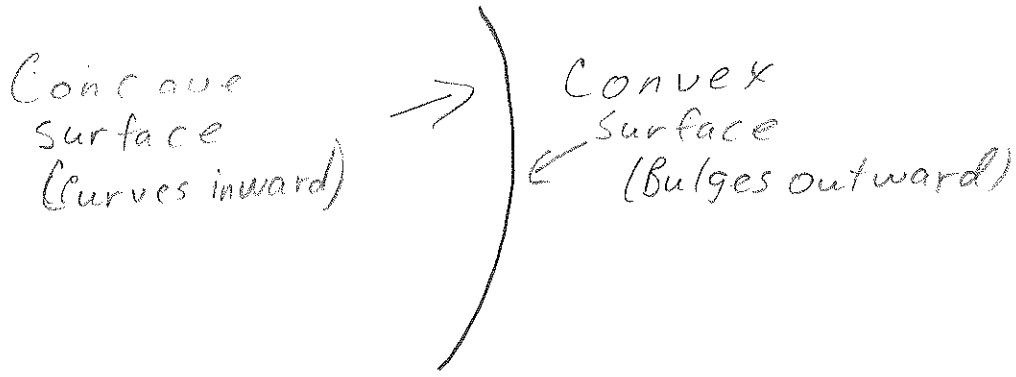
Electromagnetic spectrum

### Absorbs

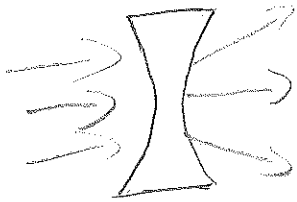
Light goes into (stops)

### Transmits

Light goes through

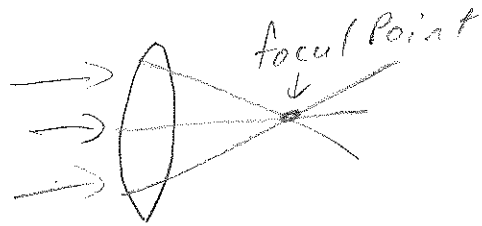


Concave lens



Causes light rays to spread apart or diverge

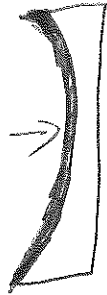
Convex lens



Causes light rays to meet or converge

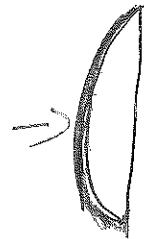
Concave mirror

Causes light rays to meet or converge



Convex mirror

Causes light rays to spread apart or diverge



# Light Energy Notes

- Light is a form of energy that travels in waves. Visible light include ALL the colors of the rainbow, but we only see the color that is reflected back.
- When light hits an object it is ...
  - reflected = bounces back
  - transmitted = passes through
  - absorbed = taken in
  - refracted = bending of light
- Light will always move in a straight line unless something blocks it or reflects it.

