# See The Light

## Storytelling with Light
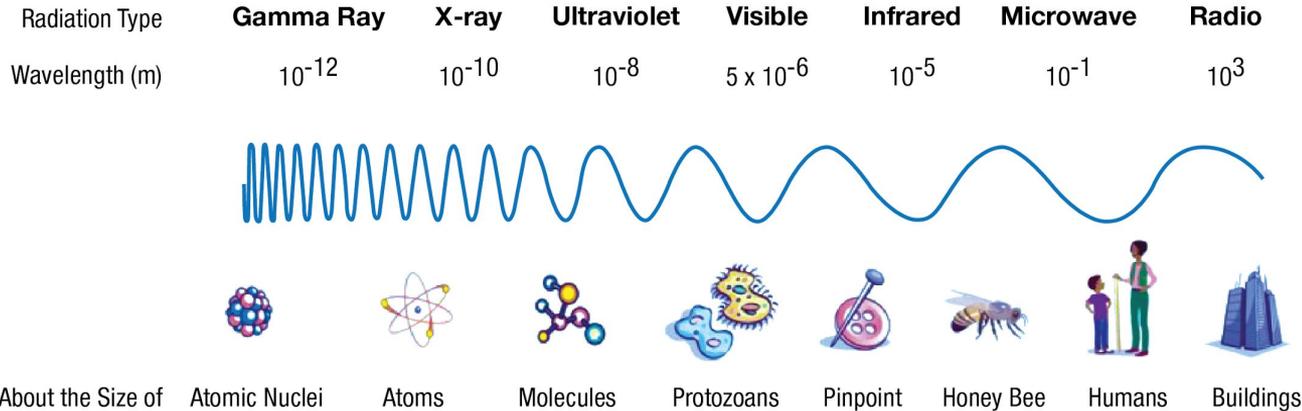
# Light

# Light

# Light

# Light



## THE ELECTROMAGNETIC SPECTRUM

### Penetrate Earth's Atmosphere

| | N | Y | | N | | Y |
|---|---|---|---|---|---|---|

| Radiation Type | Gamma Ray | X-ray | Ultraviolet | Visible | Infrared | Microwave | Radio |
|---|---|---|---|---|---|---|---|
| Wavelength (m) | $10^{-12}$ | $10^{-10}$ | $10^{-8}$ | $5 \times 10^{-6}$ | $10^{-5}$ | $10^{-1}$ | $10^{3}$ |

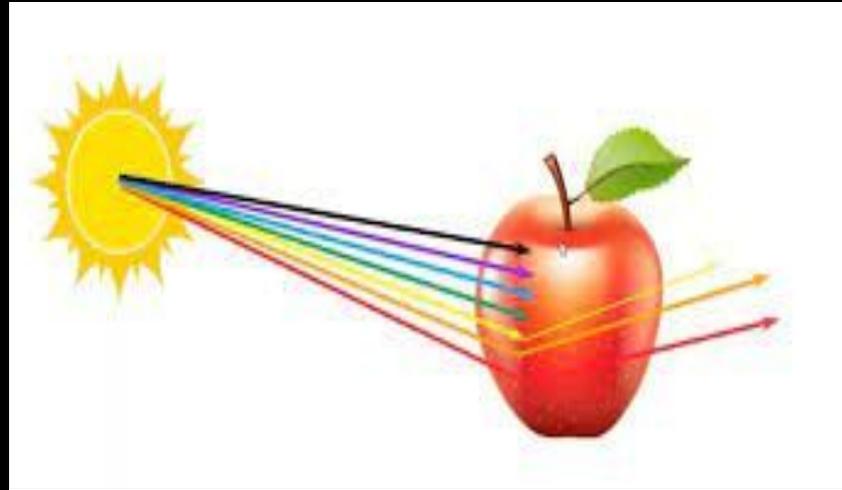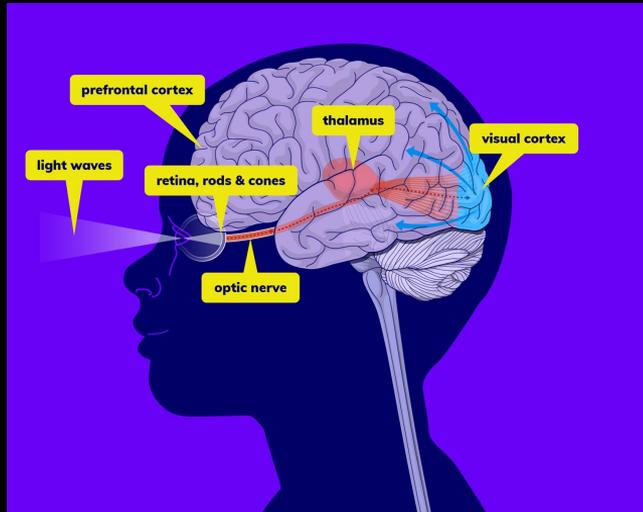| About the Size of | Atomic Nuclei | Atoms | Molecules | Protozoans | Pinpoint | Honey Bee | Humans | Buildings |
|---|---|---|---|---|---|---|---|---|
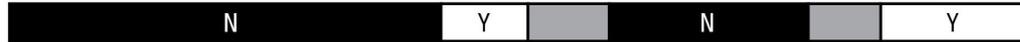
Short wavelength
High energy
High frequency

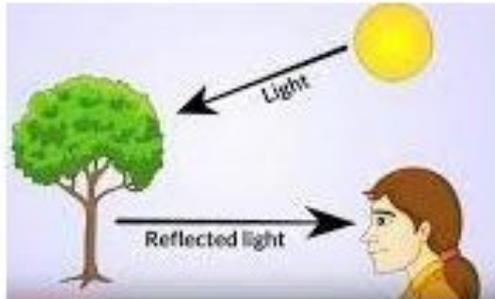Long wavelength
Low energy
Low frequency

# How we see color

# Reflection v/s Refraction

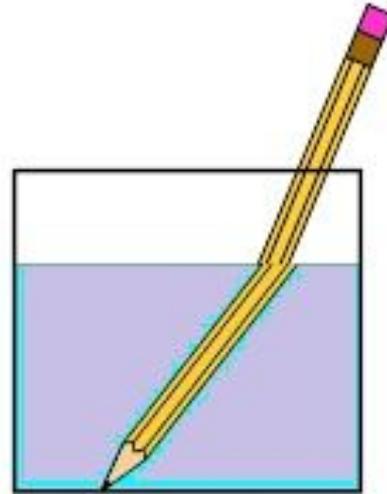# Reflection v/s Refraction



Difference Between Reflection and Refraction
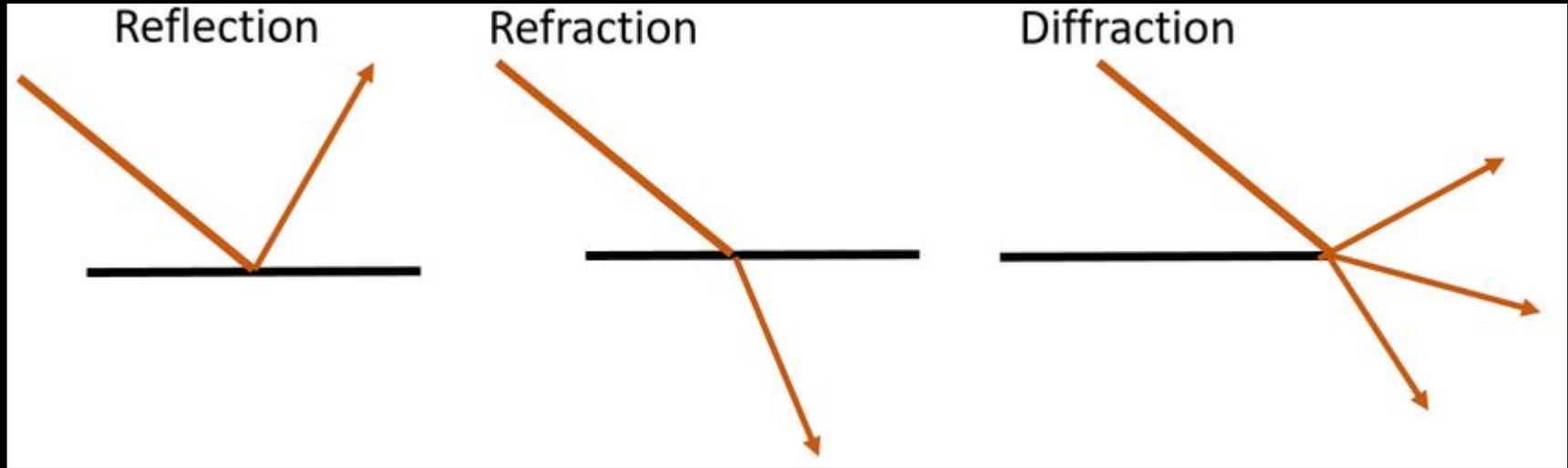
Reflection of light

Refraction

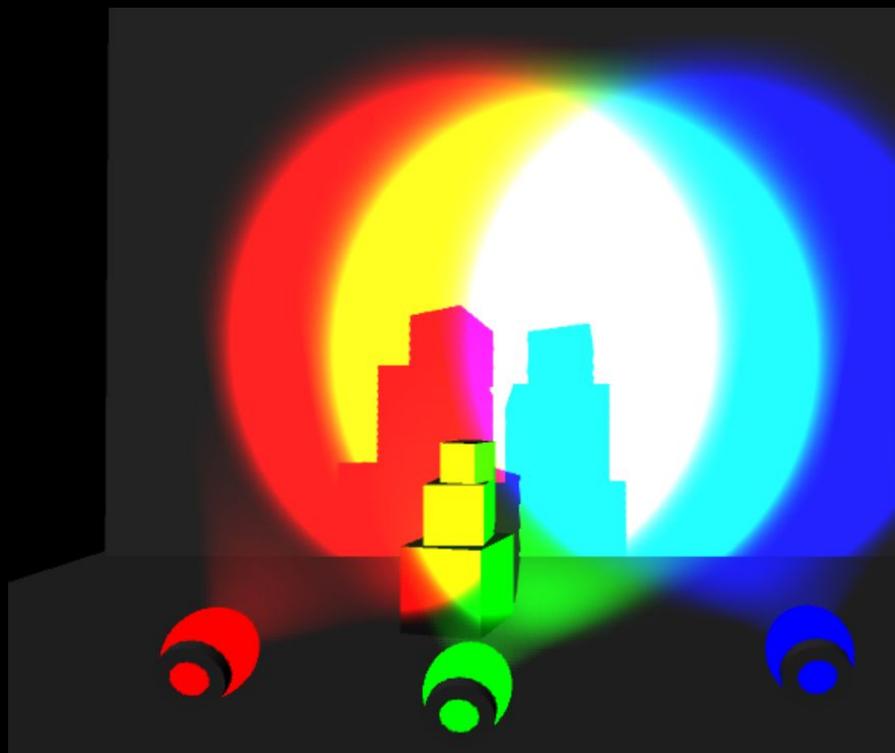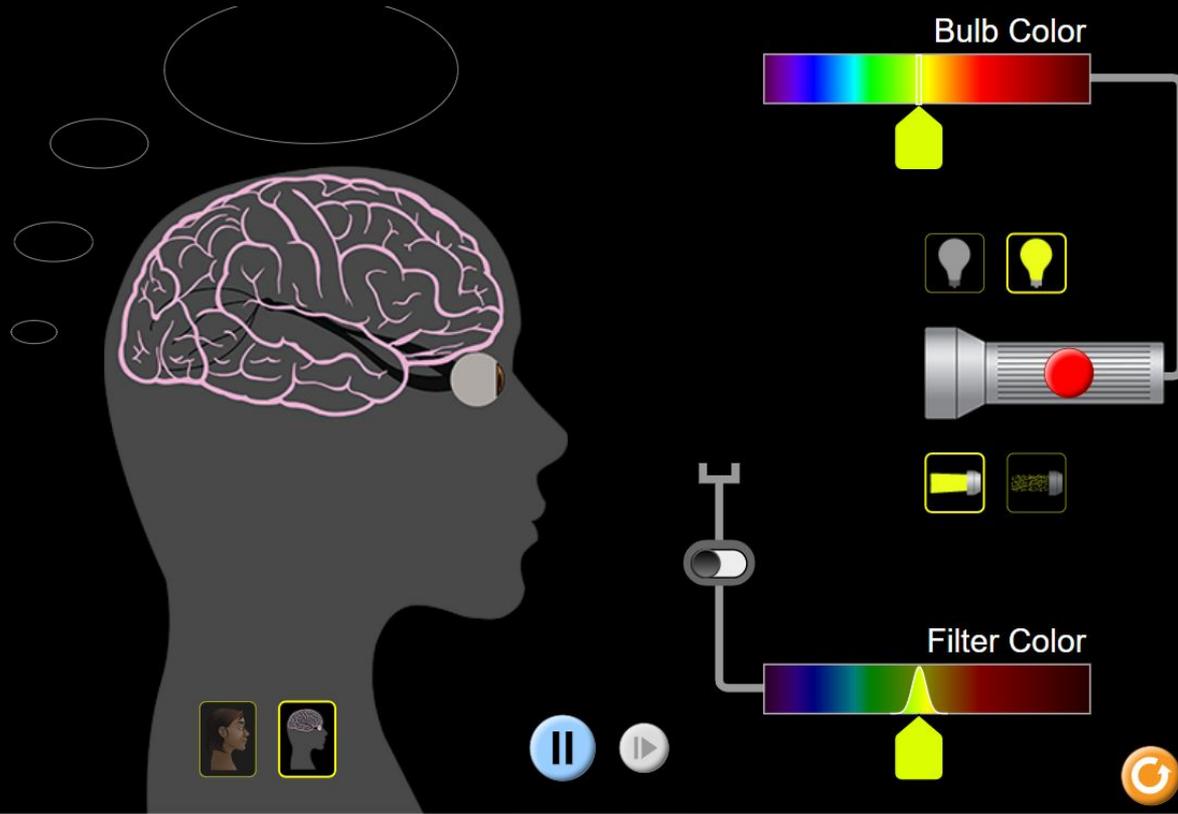# Movement of Light



Reflection    Refraction    Diffraction

# Play With Color Simulator
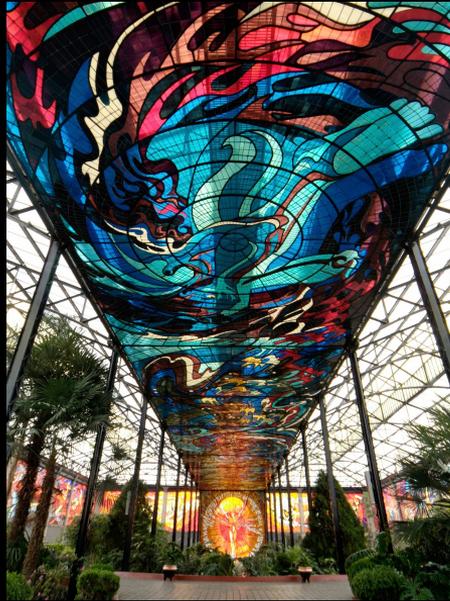
Play With Color Simulator - PhET

# Bend Light - PhET

# Inspiration



Palau de la Música Catalana, Barcelona, Spain



Cosmovitral Botanical Garden, Toluca, Mexico
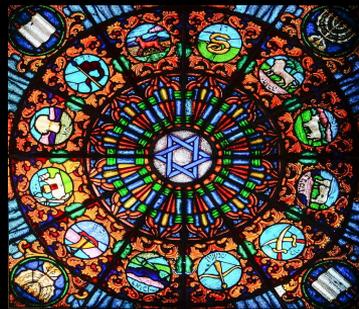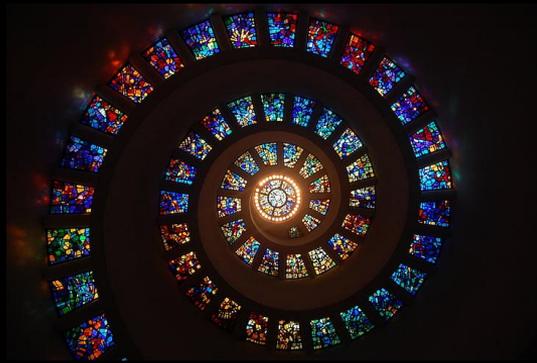


Nasir Al-Mulk Mosque, Shiraz, Iran

More Inspiration

# Inspiration









About Chihuly

# Inspiration

# Other examples







Winter Illuminations at Nabana no Sato - a flower park in Japan. During this winter wonderland Millions of LED lights are used to create dazzling displays and light tunnels.

Fête des Lumières - Lyon, France Is a major event where buildings, streets, and public spaces are illuminated with stunning light installations. It celebrates the city's heritage and attracts millions of visitors.

GLOW Eindhoven - Netherlands:
GLOW is an annual light art festival held in Eindhoven. It features various light installations and artworks created by artists from around the world.
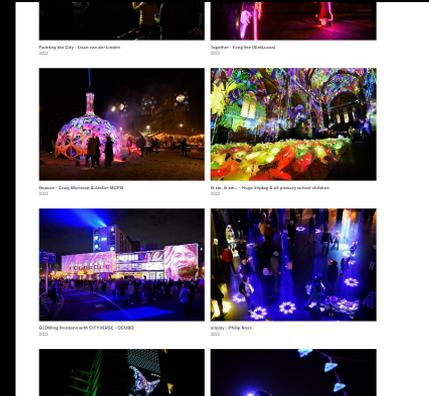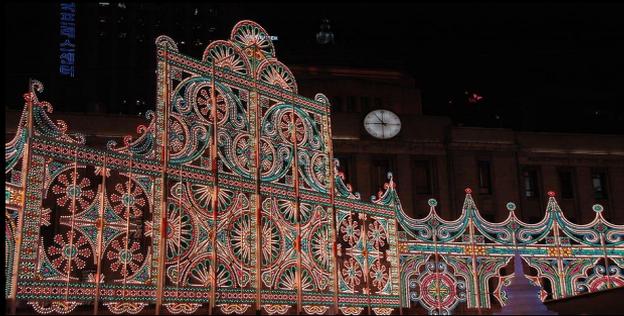








Click Link for gallery
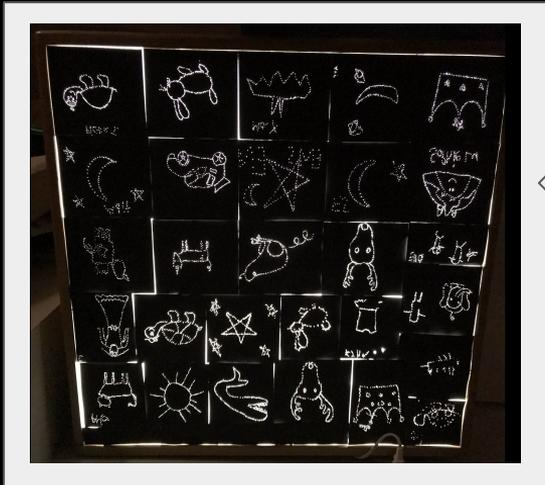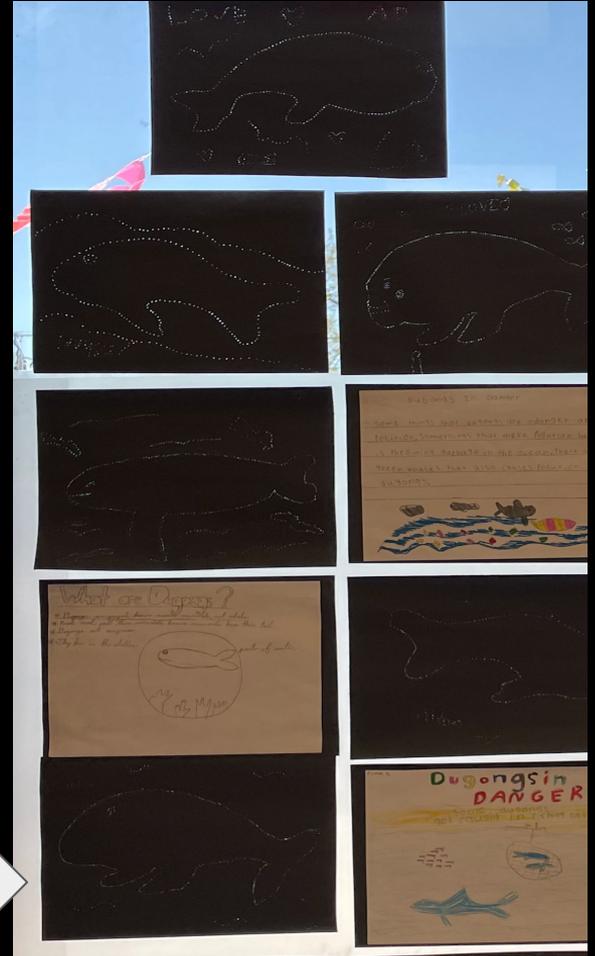
# Inspiration

# Inspiration

# Student Work - Luminaires

Examples of Student work

# Student Work - I see the light



My favorite things

Save the dugongs … don't let them disappear

# Student Work - Stained Glass
## *Ode to the Earth*



Draw or trace

Cut with exacto knife

Lay down and paste Cellophane

Enjoy and study movement of reflection

# Student Work - Geometric Stained Glass Panels



Trace geometric pattern on scraps of lamination sheets, color design with Sharpie, place on window, study phenomenon by observing reflection

# Student Work - Moving Mirrors