

In this unit we investigate light including its nature, sources, properties and applications. You will create a one-page (letter sized) presentation on one of the topics listed below. You may not do the same topic as another person in the class.

Topics:

- Night Vision Goggles
- Solar Powered Vehicles
- Solar Cells (Power)
- UV Water Purifiers
- Astronomy
- IR Cameras
- LED's
- LCD's
- St. Elmo's Fire
- The Northern Lights
- Oiled Filled Eye Glasses for the third World
- Laser Eye Correction
- Anti-Glare Coatings for Sunglasses
- Holograms
- 3D Movies/TV
- Ozone Layer Depletion
- Albedo and Global Warming
- Green House Gases
- Clothing Choices in Different Environments
- Deep Sea Creatures
- Bioluminescence
- Fireflies
- Polarized Sunglasses
- Digital Imaging For Medical Diagnosis
- Industrial Laser Applications
- Animal Vision in IR and UV
- Laser Doppler
- Fiber Optics
- Diamond versus Cubic Zirconium
- Light Pollution
- Glow Sticks
- Highlighters
- Red Eye Reduction in Cameras
- Milky Sea
- Bioluminescent Plankton
- Invisibility Cloaks
- Ghost Images – Tricks used by frauds and magicians
- Optical Illusions
- Medical Uses of Lasers (other than eye correction)
- Different Light Bulb Technologies
- X-Rays
- Vision Problems/Conditions
- Finding a true "black" or "white" colour
- Fechner Colours