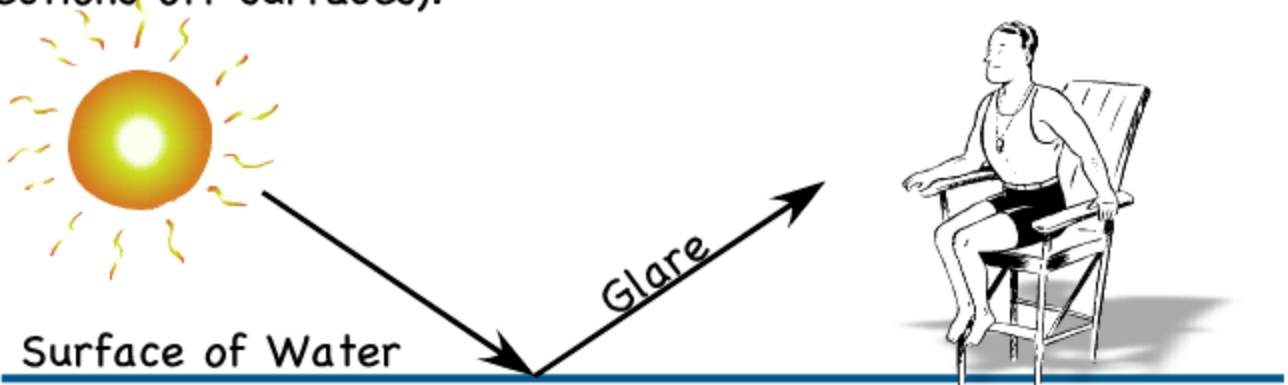


Polarized vs. Non Polarized Light: Ordinary light is non polarized. The waves of light travel in many planes(up, down, sideways,etc.) Partially polarized light is the primary cause of glare (unwanted reflections/off surfaces).



Water is reflecting light in the horizontal plane.

Polarizing lenses (filters) only allow light in one plane to pass through, thus reducing glare.

Sunlight overhead is polarized and can be seen using polarizing lenses, as a difference in brightness as you look at the sky when making  $90^\circ$  turns in your position. For example, face south and look overhead. Then face east, ( a  $90^\circ$  turn ) and look overhead again.

**Lasers**: The light produced from a laser is all the same wavelength, with all of the waves in step with each other, crest to crest, trough to trough. This is called coherent light. Most common types use Helium and Neon gases.



Laser light doesn't spread out as much as incoherent light, as in a flashlight, which has different wavelengths, that are not in step with each other.

