

## Polarization

Read from Lesson 1 of the Light Waves and Color chapter at The Physics Classroom:

<http://www.physicsclassroom.com/Class/light/u12He.html>

**MOP Connection:** Light and Color: sublevel 2

1. When a light wave vibrates in a variety of directions, the light is said to be \_\_\_\_\_.  
a. transverse    b. polarized    c. unpolarized
2. When a light wave's are isolated to a single plane, the light is said to be \_\_\_\_\_.  
a. transverse    b. polarized    c. unpolarized
3. A Polaroid filter polarizes light by \_\_\_\_\_.  
a. re-orienting all the wave vibrations such that they vibrate in a single plane  
b. blocking part of the vibrations while letting through those that are in a specific plane
4. Filters allow light to pass through. Polaroid filters are very selective about the orientation of the light vibrations that are allowed through. The light that passes through a Polaroid filter is vibrating in a direction that is \_\_\_\_\_.  
a. parallel to the orientation of the molecules that make up the alignment  
b. parallel to the polarization axis or transmission axis of the filter  
c. parallel to the ceiling or the sky (if the source of light is on the ceiling or in the sky)  
d. always horizontal, regardless of what the light source is
5. Describe the result of shining light through two polarizing filters whose transmission axes are parallel to each other. Describe the intensity and the orientation of the emerging light.



6. Describe the result of shining light through two polarizing filters whose transmission axes are perpendicular to each other. Describe the intensity and the orientation of the emerging light.



7. Passing light through a Polaroid filter is not the only way that unpolarized light can be polarized. Light is also polarized when it reflects off non-metallic surfaces. When light reflects off nonmetallic surfaces such as glass, water, or a road surface, the light is partly polarized. The reflected light consists of waves that are vibrating mostly \_\_\_\_\_ to the reflecting surface.  
a. parallel    b. perpendicular

# Polarization Physics Classroom Answer Key

**M Woodhall**



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