

## 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

**William Spottiswoode**



## **Polarization Physics Classroom Answer Key:**

*Waves and Grains* Mark P. Silverman,1998-05-03 Author Mark Silverman draws on his many experiences as an optical and atomic physicist and on his consummate skills as a teacher and writer about the mysteries of physics to present a remarkable tour of the world of light Silverman s wide ranging reflections cover virtually all elements of physical optics and its potential fantastical implications for the future of mankind Tables Line illustrations Photos *University Bulletin* University of California, Berkeley,1959 **The Child** Richard A. Shweder,Thomas R. Bidell,Anne C. Dailey,Suzanne D. Dixon,Peggy J. Miller,John Modell,2009-09-15 The Child An Encyclopedic Companion offers both parents and professionals access to the best scholarship from all areas of child studies in a remarkable one volume reference Bringing together contemporary research on children and childhood from pediatrics child psychology childhood studies education sociology history law anthropology and other related areas The Child contains more than 500 articles all written by experts in their fields and overseen by a panel of distinguished editors led by anthropologist Richard A Shweder Each entry provides a concise and accessible synopsis of the topic at hand For example the entry Adoption begins with a general definition followed by a detailed look at adoption in different cultures and at different times a summary of the associated mental and developmental issues that can arise and an overview of applicable legal and public policy While presenting certain universal facts about children s development from birth through adolescence the entries also address the many worlds of childhood both within the United States and around the globe They consider the ways that in which race ethnicity gender socioeconomic status and cultural traditions of child rearing can affect children s experiences of physical and mental health education and family Alongside the topical entries The Child includes more than forty Imagining Each Other essays which focus on the particular experiences of children in different cultures In Work before Play for Yucatec Maya Children for example readers learn of the work responsibilities of some modern day Mexican children while in A Hindu Brahman Boy Is Born Again they witness a coming of age ritual in contemporary India Compiled by some of the most distinguished child development researchers in the world The Child will broaden the current scope of knowledge on children and childhood It is an unparalleled resource for parents social workers researchers educators and others who work with children

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*Polarization Physics* ,1974      **The Theory of Polarization Phenomena** Brian Albert Robson,1974      *Polarisation of Light*  
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