

Polarization

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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

Answer Key Polarization Physics Classroom

**Norman Everett Gilbert, Charles Albert
Proctor**



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Polarized Light American Association of Physics Teachers, American Institute of Physics, 1963 *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards, 1988 **Journal of Research of the National Bureau of Standards** , 1981 **Physics** Edward C. Gruber, 1963 *American Journal of Physics* , 1999 **The Chemistry Leaflet** , 1938 **Medical College Admission Test** David Reuben Turner, 1972 **Physics** Eugene Hecht, 2003 Student text An Introduction to Physics Measurement The Language of Physics Kinematics Speed Velocity Speed Velocity Relative Motion Kinematics Acceleration The Concept of Acceleration Uniformly Accelerated Motion Free Fall Newton s Three Laws The Three Laws Dynamics Statics Centripetal Force Gravity Centripetal Force Gravity The Cosmic Force Energy The Transfer of Energy Mechanical Energy Conservation of Mechanical Energy Momentum Collisions Linear Momentum Rotational Motion The Kinematics of Rotation Rotational Equilibrium The Dynamics of Rotation Solids Liquids Gases Atoms Matter Fluid Statics Fluid Dynamics Elasticity Oscillations Elasticity Harmonic Motion Waves Sound Mechanical Waves Sound Thermal Properties of Matter Temperature Thermal Expansion The Gas Laws Heat Thermal Energy Thermal Energy Change of State The Transfer of Thermal Energy Thermodynamics The First Law of Thermodynamics Cyclic Processes Engines Refrigerators The Second Law of Thermodynamics Electrostatics Forces Electromagnetic Charge The Electric Force The Electric Field Electrostatics Energy Electric Potential Capacitance Direct Current Flowing Electricity Resistance Circuits Circuit Principles Network Analysis Optional Magnetism Magnets the Magnetic Field Electrodynamics Magnetic Force Electromagnetic Induction Electromagnetically Induced emf Generators Self Induction AC Electronics Alternating Current R L C AC Networks Optional Electronics Optional Radiant Energy Light The Nature of Light The Electromagnetic Photon Spectrum The Propagation of Light Scattering Scattering Reflection Refraction The World of Color Geometrical Optics Instruments Lenses Mirrors Physical Optics Polarization Interference Diffraction Special Relativity Before the Special Theory The Special Theory of Relativity Relativistic Dynamics The Origins of Modern Physics Subatomic Particles The Nuclear Atom The Evolution of Quantum Theory The Old Quantum Theory Atomic Theory Quantum Mechanics The Conceptual Basis of Quantum Mechanics Quantum Physics Nuclear Physics Nuclear Structure Nuclear Transformation High Energy Physics Elementary Particles Quantum Field Theory A Brief Mathematical Review Algebra Geometry Trigonometry Vectors Dimensions Experiments in Physics for General Laboratory Classes Norman Everett Gilbert, Charles Albert Proctor, 1921 NBS Special Publication , 1968 *Selected Reprints* American Association of Physics Teachers, 1965 **Medical College Admission Test** Edward C. Gruber, 1970 **Publications** United States. National Bureau of Standards, 1977 **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards, 1977 Optics Letters , 1995 Publications of the National Bureau of Standards United States. National Bureau of Standards, 1976 Catalog of National Bureau of Standards Publications, 1966-1976 United States. National

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