

## Light



Name Class Date Photons with an energy of 7.9 electronvolts Which equation correctly relates the strike a zinc plate, causing the emission of speed v, wavelength  $\lambda$ , and period Tphotoelectrons with a maximum kinetic of a periodic wave? energy of 4.0 electronvolts. The function 11.9 eV 7.9 eV 3.9 eV 4.0 eV As a monochromatic beam of light passes 3 The threshold frequency in a photoelectric obliquely from flint glass into water, how do the experiment is most closely related to the characteristics of the beam of light change? Its wavelength decreases and its frequency 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 What is the absolute index of A 3.32 eV refraction of the material? **B**  $3.20 \times 10^{-6} \text{ eV}$  $C 3.00 \times 10^{48} J$ B 2.50 D 3.32 x 10-19 7.50 0.833 9 Compared to the wavelength of red light helium-neon laser emits energy in the the wavelength of yellow light is visible red region in the form of A shorter A alpha particles B gamma rays **B** longer C the same **C** electrons **D** photons



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