

Name: _____ Date: _____ Class: _____

Quick Check Handout

Instructions: Answer each question to the best of your ability. You may use your notes. Through your answers, show what you learned about light polarization and how sunglasses work.

1. Compare and contrast *polarized* and *unpolarized light*.
2. Polarization refers to which property of the wave?
3. Other than using a polarizing filter, list one way in which light can be polarized.
4. A beam of horizontally polarized light of intensity 87 W/m^2 enters a second polarizing filter rotating 40.0° to the horizontal. Calculate the transmitted intensity.
5. Explain how light becomes polarized through the transmission method.
6. A beam of light strikes and reflects off a non-metallic, vertical surface. The light is now polarized in which direction? Explain.