

Name: \_\_\_\_\_ Group: \_\_\_\_\_

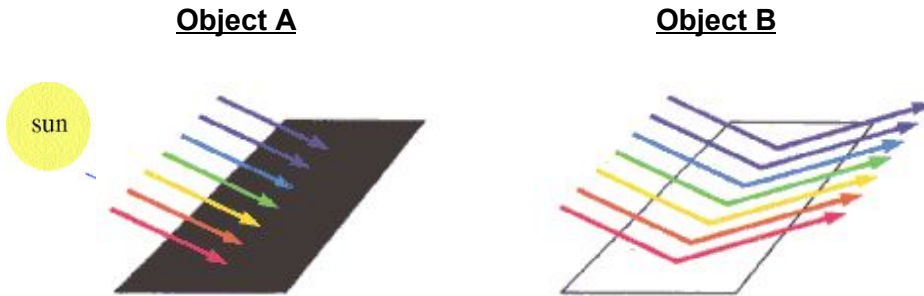
Date: \_\_\_\_\_

### Practice Questions - Waves

Along with your study guide, please practice answering the following questions in preparation for the waves unit test.

#### Question 1

Object A (black cloth) and Object B (white cloth) have been exposed to sunlight. The colored arrows represent the light waves of the visible light spectrum.



What happens when sunlight hits the black cloth (Object A)? Use either reflection or absorption in your answer.

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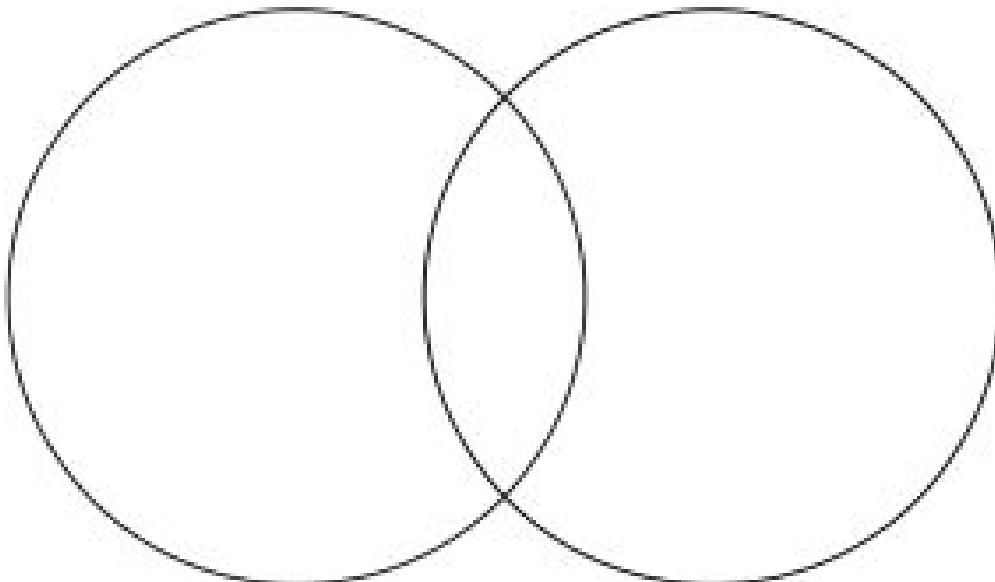
What happens when sunlight hits the white cloth (Object B)? Use either reflection or absorption in your answer.

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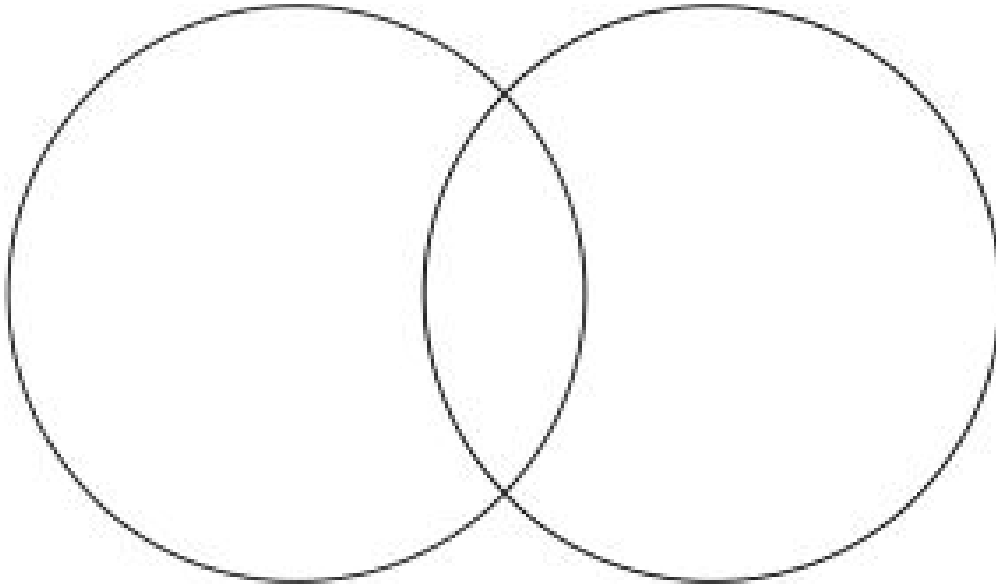
#### Question 2

Complete the Venn diagram below about longitudinal waves and transverse waves. Give 3 characteristics for each. Label the left box (Longitudinal) and the right box (Transverse).



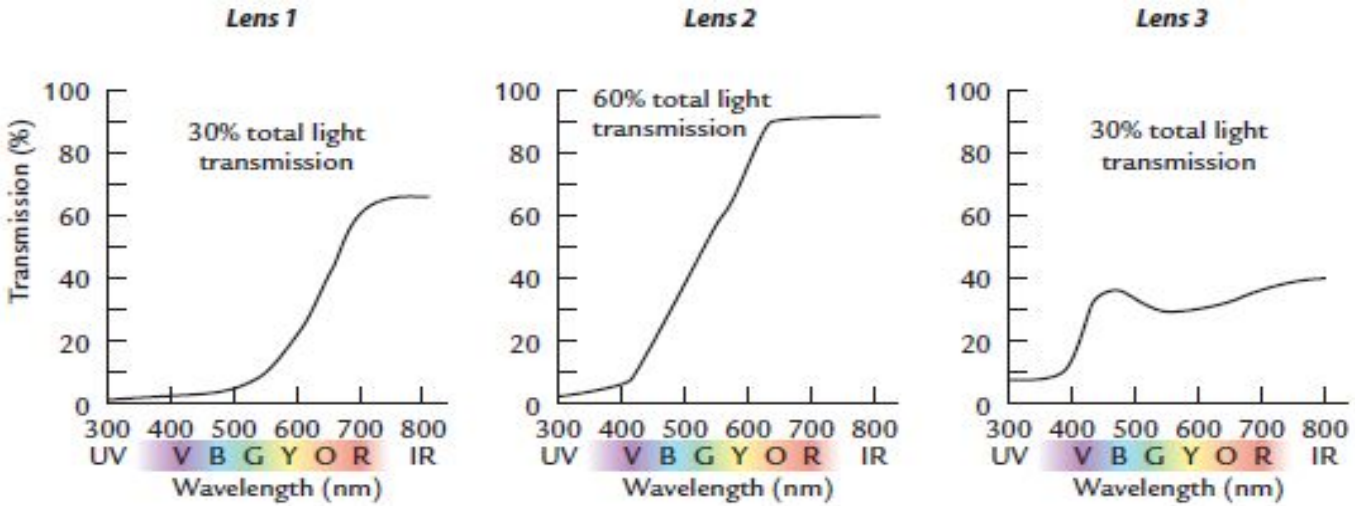
**Question 3**

Complete the Venn diagram below about light waves and sound waves. Give 3 characteristics for each. Label the left box (Light waves) and the right box (Sound waves).



**Question 4**

Below are transmission graphs for 3 different pairs of sunglasses.



Which pair transmits the **most yellow** light? \_\_\_\_\_. What evidence from the graph supports this?

\_\_\_\_\_

Which pair transmits the least amount of **blue** light? \_\_\_\_\_

Which pair is least likely to give you cataracts in your eyes? \_\_\_\_\_. Cite your evidence below.

\_\_\_\_\_