

Name (First and Last Name): _____

Study Guide for Light Unit Test

DIRECTIONS: Use your interactive science notebook to answer the questions below.

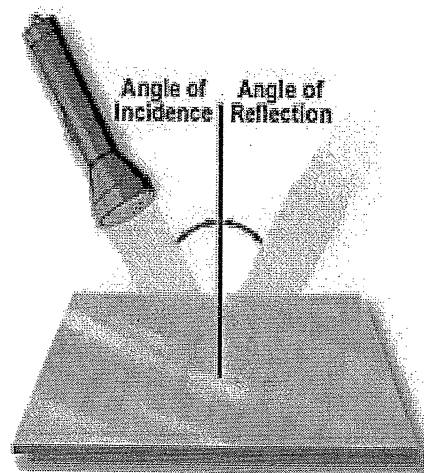
Decide if the following are examples of reflection or refraction.

_____ Light bouncing off of glass.

_____ You seeing yourself in mirror.

_____ A pencil appearing larger under the water than above the water.

Use the image as a reminder. What do we know about the angle of incidence and the angle of reflection?



Define the following terms.

opaque: _____

transparent: _____

translucent: _____

Decide if the following are examples of transparent, translucent or opaque objects. Write the correct word in the blank.

_____ sandwich bag

_____ waxed paper

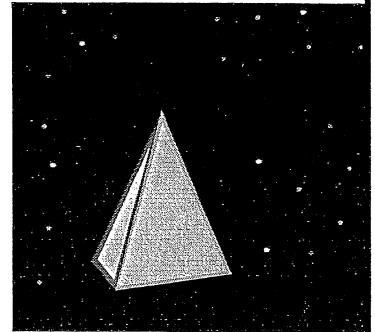
_____ a book

_____ tissue paper

_____ black colored paper

_____ a glass window in the classroom

When white light passes through a triangular prism explain what happens once the light exits the prism.



List the seven colors of the visible light spectrum in the order in which they appear.

Using your understanding of the visible light spectrum answer the following questions:

Why does a red shirt appear red? _____

Why does a white piece of paper appear white? _____

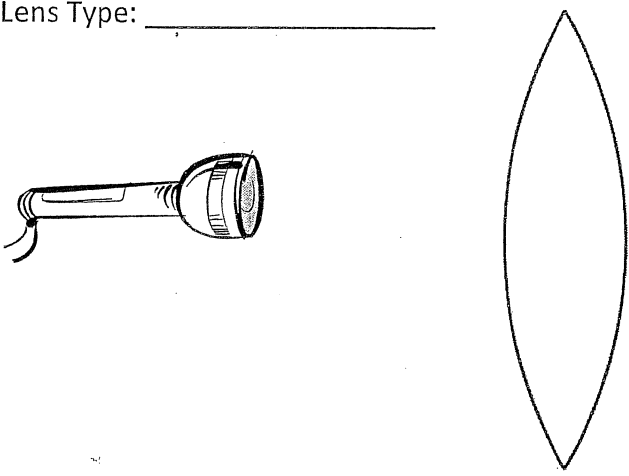
Why does a black shirt appear black? _____

Describe what you see when a red light shines a pieces of paper with blue and red writing. Explain why.

If a light was shining on a piece of sandpaper, smooth aluminum foil and crumpled aluminum foil, explain what the reflected light would look like for each one. Which would produce the clearest/best reflection of the light?

Using the lens diagrams bellows (1) label the lens type [either convex or concave] (2) illustrate what happens to light as it passes through the lens (3) Write a sentence explaining what happens

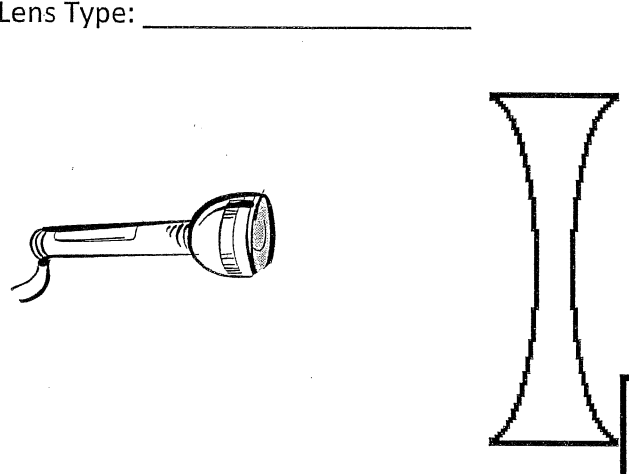
Lens Type: _____



Explanation:

This block contains a flashlight on the left and a convex lens on the right. The lens is biconvex. Below the lens is a rectangular box for an explanation.

Lens Type: _____



Explanation:

This block contains a flashlight on the left and a concave lens on the right. The lens is biconcave. Below the lens is a rectangular box for an explanation.

Which type of lens would be used to make objects appear (think about a magnifying glass)? Explain your answer.

As light passes through a medium (water, glass, etc....), how is the speed of the light impacted?
