

Home Lab 5 Refraction of Light

Overview:

In previous experiments we learned that when light falls on certain materials some of the light is reflected back. In many materials, such as glass, plastic, or water, the light also goes through the material or body. For example, I can see my face when light is reflected from the surface of water such as a swimming pool, which means that water reflects light. At the same time, I can see the bottom of the swimming pool, which means light is reflected from the bottom of the pool then transmitted through the water and then into the air to my eye.

Light travels in straight lines until it encounters another material where it is partially reflected and partially transmitted. We learned that the angle of incidence is equal to the angle of reflection and the angles do not depend on the nature of the material. In refraction we will learn that the angle of the ray when transmitted through the material changes and depends on the speed of light in the two materials.

Many phenomena encountered in our daily lives can be simply explained on the basis of refraction and reflection. Some of these are: why do fish look larger in the water, what causes a spoon to appear bent in a glass of water, why does light travel indefinitely in an optical cable, and, of course ,how are rainbows, and mirages formed, etc.

Refraction Of Light Home Lab Answers

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Refraction Of Light Home Lab Answers:

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