

PHYSICAL Science

AGS



Lesson 6

Bending Light

Objectives

After reading this lesson, you should be able to

- explain how light is refracted.
- describe how concave and convex lenses refract light.
- explain how lenses in eyeglasses can correct vision.

Refraction

The bending of a light ray as it moves from one material to another

Lens

A curved piece of clear material that refracts light waves

Concave lens

A lens that is thinner in the middle and thick at the edges

When light moves from one kind of matter to another, the light waves change speed. As a result, the direction of the light changes. The bending of a light wave as it moves from one material to another is called **refraction**.

Notice that the pencil in the photo appears to be bent. Light travels more slowly in water than it does in air. When light passes from the water to the air, the light waves change speed and change direction. As a result, the pencil seems to bend.



Refraction causes the pencil to look like it is bent.

Lenses

A lens bends light by acting like the water in the container.

A lens is a curved piece of glass or other clear material that

refracts light waves that pass through it. Lenses are used in eyeglasses, cameras, magnifying glasses, microscopes, and telescopes. What you see through a lens depends on the kind of lens you use.

A concave lens curves inward. Look at Figure A. The lens is thin in the middle and thick at the edges. Light rays that pass through a concave lens are spread apart.

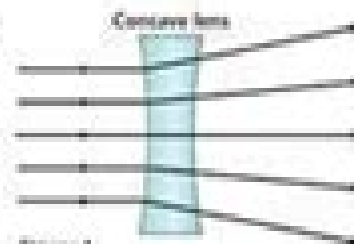


Figure A

Test Physical Science Aqs

J Elliott



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