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Concept Review

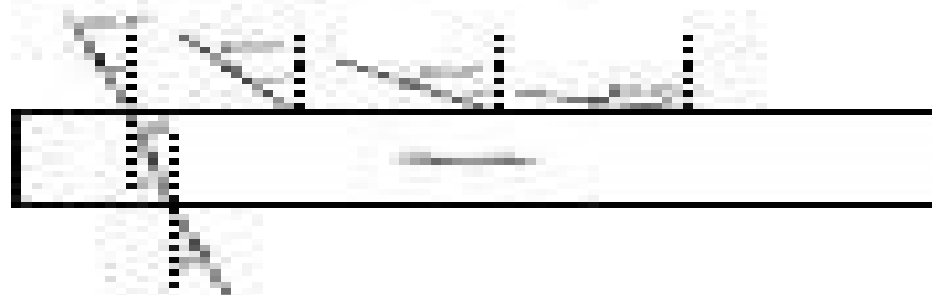
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1. The speed of light is about 3×10^8 m/s.

a. How fast does light travel in our atmosphere under good conditions?

b. If light takes 1.5 seconds to travel to the Moon, how far is the Moon?

2. A light ray traveling down a fiber-optic cable undergoes total internal reflection at several points along its length. Sketch a ray of light entering a fiber-optic cable and show how it travels along the cable.



a. How is the light reflected? Does it go up?

b. If light enters a cable, how does the light travel along the cable?

c. Explain what happens when light enters a fiber-optic cable.

d. Sketch the path of light in a fiber-optic cable.

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