

Chapter 26 Properties of Light
Speed, Wavelength, and Frequency — continued

- e. Light in which range of frequencies is absorbed in glass? [visible] [ultraviolet].
- f. Light in which range of frequencies is transmitted through glass? [visible] [ultraviolet].
- g. How is the speed of light in glass affected by the succession of time delays that accompany the absorption and re-emission of light from atom to atom in the glass?

h. How does the speed of light compare in water, glass, and diamond?

4. The Sun normally shines on both Earth and Moon. Both cast shadows. Sometimes the Moon's shadow falls on Earth, and at other times Earth's shadow falls on the Moon.

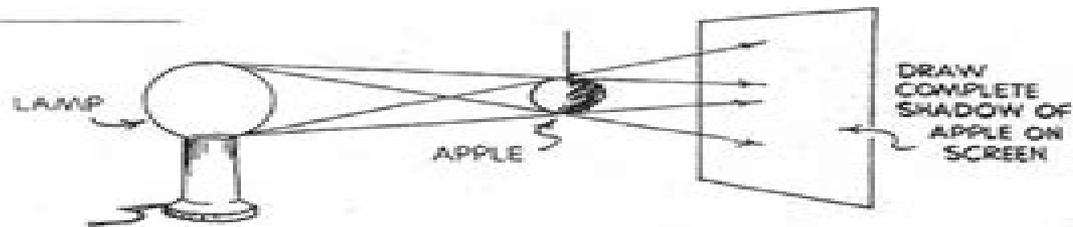
a. The sketch shows the Sun and Earth. Draw the Moon at a position for a solar eclipse.



b. This sketch also shows the Sun and Earth. Draw the Moon at a position for a lunar eclipse.



5. The diagram shows the limits of light rays when a large lamp makes a shadow of a small object on a screen. Make a sketch of the shadow on the screen, shading the umbra darker than the penumbra. In what part of the shadow could an ant on the screen see part of the lamp?



Conceptual Physics Chapter 10 Assessment Answers

David Kirk



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