

Lesson 3: What is light energy?

Before You Read Lesson 3

Read each statement below. Place a check mark in the circle to indicate whether you agree or disagree with the statement.

	Agree	Disagree
1. Similar to sound waves, light waves carry electrical and magnetic energy.	<input type="radio"/>	<input type="radio"/>
2. Wavelength is measured from the top of one wave to the top of another wave.	<input type="radio"/>	<input type="radio"/>
3. We can see most of the light in the spectrum.	<input type="radio"/>	<input type="radio"/>
4. When light enters new material, it will bend.	<input type="radio"/>	<input type="radio"/>

After You Read Lesson 3

Reread each statement above. If the lesson supports your choice, place a check mark in the *Correct* circle. Then explain how the text supports your choice. If the lesson does not support your choice, place a check mark in the *Incorrect* circle. Then explain why your choice is wrong.

	Correct	Incorrect
1. _____ _____	<input type="radio"/>	<input type="radio"/>
2. _____ _____	<input type="radio"/>	<input type="radio"/>
3. _____ _____	<input type="radio"/>	<input type="radio"/>
4. _____ _____	<input type="radio"/>	<input type="radio"/>



Notes for Home: Your child has completed a pre/post inventory of key concepts in the lesson.

Home Activity: Have your child make a chart of the colors and their corresponding wavelengths.

Reviewing Terms: Matching

Match each definition or example with the correct term. Write the letter on the line next to the definition or example.

- | | |
|--|------------------------------|
| _____ 1. waves with many frequencies and wavelengths | a. electromagnetic radiation |
| _____ 2. the combination of electrical and magnetic energy | b. visible light |
| _____ 3. the small part of the spectrum that you can see | c. prism |
| _____ 4. a transparent object that bends light of different wavelengths by different amounts | d. spectrum |

Reviewing Concepts: True or False

Write T (True) or F (False) on the line before each statement.

- _____ 5. Light always travels in straight lines.
- _____ 6. Light can be bent or refracted when it hits a new material at an angle.
- _____ 7. An object in the path of light waves does not cast a shadow.
- _____ 8. When light is absorbed, light energy is transformed into stored energy.

Applying Strategies: Compare and Contrast

Use complete sentences to answer question 9. (2 points)

9. In what ways are sound and light alike and different?
