

# Lesson 2 The Electromagnetic Spectrum

**Predict** three facts that will be discussed in Lesson 2 after reading the headings. Write your facts in your Science Journal.

## Main Idea

**What is the electromagnetic spectrum?**

I found this on page \_\_\_\_\_.

I found this on page \_\_\_\_\_.

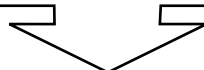
**Classifying Electromagnetic Waves**

I found this on page \_\_\_\_\_.

## Details

**Generalize** the reason for the range of energy carried by waves in the electromagnetic spectrum.

Each wave has a different \_\_\_\_\_ and \_\_\_\_\_, so



\_\_\_\_\_

 **Define** the electromagnetic spectrum.

\_\_\_\_\_  
\_\_\_\_\_

**Characterize** the electromagnetic spectrum.

<b>Type of Wave</b>	_____ wavelength	
	_____ frequency	
	_____ energy	
		Diagram:
_____ wavelength		
_____ frequency		
_____ energy		


## Lesson 2 | The Electromagnetic Spectrum (continued)

### Main Idea


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I found this on page \_\_\_\_\_.

### Details

 **Differentiate** wavelengths in the electromagnetic spectrum. The numbers in the boxes correspond to the art of the electromagnetic spectrum shown in your book.

<p><b>A.</b> Identify the type of wave.  <b>B.</b> Describe the wave's wavelength, frequency, and energy.  <b>C.</b> Determine a use or characteristic of the wave.</p>	<p style="text-align: right;"><b>1</b></p> <p><b>A.</b> Radio wave  <b>B.</b>  <b>C.</b></p>
<p style="text-align: center;"><b>2</b></p> <p><b>A.</b>  <b>B.</b>  <b>C.</b></p>	<p style="text-align: center;"><b>3</b></p> <p><b>A.</b>  <b>B.</b>  <b>C.</b></p>
<p style="text-align: center;"><b>4</b></p> <p><b>A.</b>  <b>B.</b>  <b>C.</b></p>	<p style="text-align: center;"><b>5</b></p> <p><b>A.</b> Ultraviolet wave  <b>B.</b>  <b>C.</b></p>
<p style="text-align: center;"><b>6</b></p> <p><b>A.</b> X-ray  <b>B.</b>  <b>C.</b></p>	<p style="text-align: center;"><b>7</b></p> <p><b>A.</b>  <b>B.</b>  <b>C.</b></p>

 **Connect It** Envision a quick look around your home. Explain which type of electromagnetic wave you think is most useful to your lifestyle and why.

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