

Reading Tip

Make connections with memorable events, places, or people in your life. The better the connection, the more likely you will remember.

Target Your Reading

Use this to focus on the main ideas as you read the chapter.

- 1 Before you read** the chapter, respond to the statements below on your worksheet or on a numbered sheet of paper.
 - Write an **A** if you **agree** with the statement.
 - Write a **D** if you **disagree** with the statement.
- 2 After you read** the chapter, look back to this page to see if you've changed your mind about any of the statements.
 - If any of your answers changed, explain why.
 - Change any false statements into true statements.
 - Use your revised statements as a study guide.

Before You Read A or D	Statement	After You Read A or D
	1 As the wavelength of light waves increases, the frequency also increases.	
	2 Loud sounds can permanently damage your ears.	
	3 The energy carried by a wave depends on the speed of the wave.	
	4 Different colors of light have different wavelengths.	
	5 Sound waves with a low frequency have a low pitch.	
	6 Waves transfer matter from one place to another.	
	7 Light cannot travel through empty space.	
	8 The human eye can detect waves in most of the electromagnetic spectrum.	
	9 Sound waves travel faster in warmer air than in cooler air.	
	10 Refraction occurs when waves change speed going from one material to another.	