

True or False

Follow the instructions below to complete the activity.

NAME DATE

Using information found in the book, verify whether the following statements are true or false. Check your answers in the book. List the page number where you found the information beside your answer.

Statement 1	Earthquakes involve waves inside Earth.	TrueFalse	Page Number	
Statement 2	X-rays can pass easily through skin but not very easily through bone.	TrueFalse	Page Number	
Statement 3	Light waves are an example of mechanical waves.	TrueFalse	Page Number	
Statement 4	In transverse waves, the disturbance moves back and forth in the same direction that the wave travels.	TrueFalse	Page Number	
Statement 5	Pulling a spring toy up and down creates longitudinal waves.	TrueFalse	Page Number	



Everyday STEM Waves Reference: All Pages





Test Your Knowledge of Waves

Follow the instructions below to complete the activity.

NAME

DATE

Test your knowledge of waves by answering these brain teasers.

1. What are waves?

2. What are surface waves?

3. What are light waves?

4. Explain how waves move.

5. Give examples of electromagnetic waves.



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6. The of a wave is the amount of time it takes to complete one cycle.



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NAME

DATE

Many scientists have contributed to the study of waves. Research online, and choose a scientist that you are interested in learning more about. Then, try researching and writing a biography about that person using this concept web as a guide.





Everyday STEM Waves Reference: All Pages





Write a Letter

Follow the instructions below to complete the activity.

NAME

DATE

After completing the activity on pages 26–27, write a letter to a friend describing it. The letter should expand on your most important discoveries from the activity. What was the result? Was the activity difficult to do? What did you learn from it?



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Test your knowledge by answering these quiz questions.

NAME DATE

1	What causes a wave?
2	What is the usual source for waves on a lake?
3	What are two types of mechanical waves?
4	Does a wave carry energy from one place to another?
5	What type of waves travel through a spring toy?
6	Can electromagnetic waves travel through space?
7	What are the top and bottom of a wave called?
8	What waves are used to see inside the body?
9	What machine uses waves to cook food?
10	How do waves help us see?



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Key Words Match-Up

Write the words from the list below in the box above the correct definition for each word.

NAME DATE

atom distu horiz matt	KEY WC n irbance contally cer	DRDS patterns perpendicular satellites		Y Sci	ove is	%
1.	the thing that carrie	es energy as a wave tr	avels	5.	a small unit of matter that most of t around us are made of	he objects
2.	anything that takes	up space	(5.	things that repeat regularly	
3.	in a way that is para	llel to the ground	7	7.	objects in space that travel around i	nuch
4.	at a 90-degree angle	e with another surfac	e		larger objects	



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Quiz Answer Key

Compare your quiz answers with the answer key below.

NAME DATE

1	An energy source creates a disturbance
2	The wind
3	Ocean waves and sound waves
4	Yes
5	Longitudinal waves
6	Yes
7	Crest, trough
8	X-rays
9	A microwave oven
10	Light waves bounce off objects



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