

NAME DATE

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

Statement 1	People first began studying photosynthesis in 1771.	True	Page Number	
Statement 2	Alessandro Volta invented the first battery in about the year 1900.	True	Page Number	
Statement 3	Scientists have improved solar panels by studying water lilies.	True	Page Number	
Statement 4	To create light, chemicals react inside a firefly's body.	True	Page Number	
Statement 5	Termite mounds inspired the design of the Eastgate Centre in Paris, France.	True	Page Number	
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Reference: All Pages

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Use the information found in *Energy Technology* to help you complete the following activity.

1. Some schools of fish swim in a ______ shape.

2. As electricity travels, it loses energy in the form of ______.

3. In a beehive, each bee has a small _____.

- 4. As time passes, humans are becoming more reliant on energy sources.
- 5. mounds inspired the design of the Eastgate Centre in Harare, Zimbabwe.
- 6. Plants take in energy from the Sun and store it as



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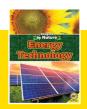




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Complete the statements by entering the correct number in the box.

In 1938, archaeologists discovered ancient battery-like objects that were more than this many years old.	2
The wind energy industry in the United States grew by this percentage in 2017.	15
Termite mounds can reach higher than this many feet.	2,200
As of 2016, more than this many million battery-powered cars had been sold.	9
A humpback whale's front flippers are about this many feet long.	17



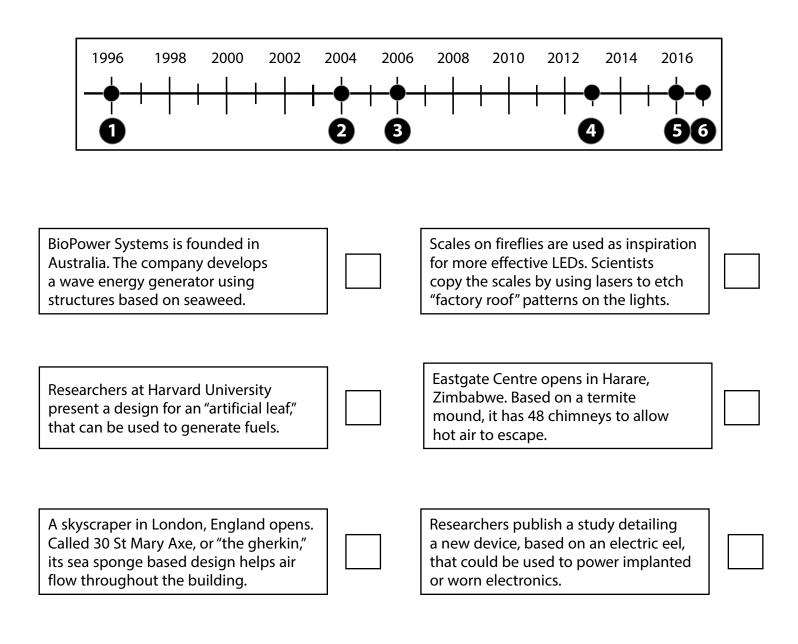
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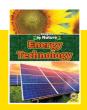
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Number the events below in the order they should appear on the timeline. Write the number in the box beside each event. Check your answers with page 27 of the book.





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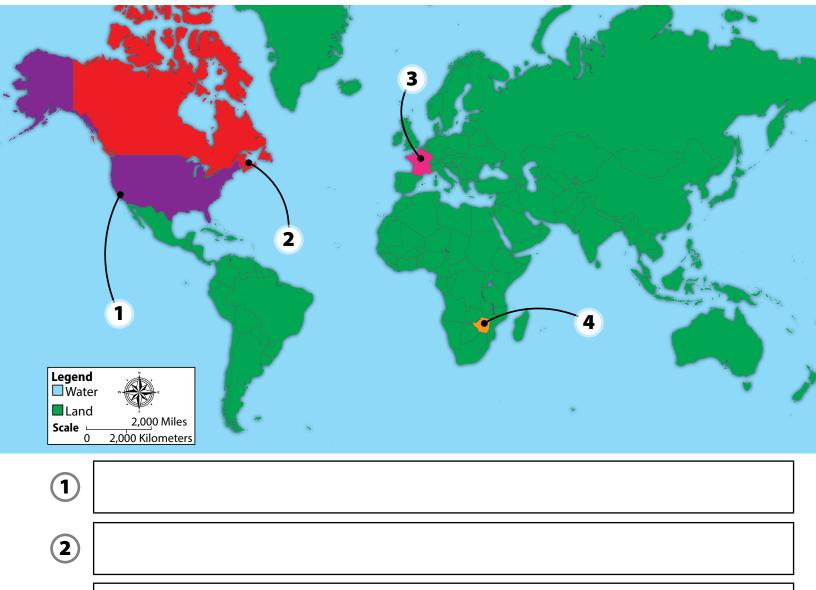


Maj	o Activity			
Follow the instructions to complete the activity.				

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Using the information on pages 28–29 of the book, fill in the blanks with the development relating to energy technology in each location. Using information found in the book and research online, briefly explain why each location is important to the field of biomimetics.



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3

4

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	What city received "Wind Tree" windmills in 2016?
	When did people begin studying photosynthesis?
	What gives plant leaves a green color?
	When were batteries first sold in the United States?
	Where is a firefly's light organ?
	What is a tubercle?
	When did the first photosynthetic bacteria form?
	What shape do flocks of geese form when they fly?
	How tall can a termite mound be?
	What mineral makes up coral reefs?
N V V	

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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.

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KEY WORDS Your Score is solar renewable photosynthesis generator power plant adapted mimicking calcium carbonate tubercles ecosystem 6. 1. having to do with natural resources that the process in which plants turn sunlight, carbon dioxide, and water into oxygen never run out and energy 2. the collection of living things in a 7. natural area a place that generates electricity 3. 8. changed over time to deal with a a solid substance found in nature as chalk, limestone, and marble certain situation 9. 4. having to do with the Sun a machine that produces electricity 5. 10. knobby lumps on living things copying an appearance or behavior **Designed by Nature** LIGHTB

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NAME		
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1	Paris,	France

- 2 1771
- Chlorophyll
- 4 1898
- 5 On its abdomen
- 6 A ridge on a humpback whale's fin
- 7 More than 3 billion years ago
- A "V" shape
- 9 Higher than 17 feet (5.2 m)
- **1** Calcium carbonate



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