

**Reference: All Pages** 

Using the information in *Transportation 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.

Designed by Nature Page   Transportation Technology 1of 1		Œ		
Statement 5	A longer wing helps reduce drag	j Tru J Fals	Page	
Statement 4	Atlantic herring can form groups hundreds of millions of fish.	s with Tru	Page	
Statement 3	A shape-changing wing is more than other wings.	rigid Tru	Page	
Statement 2	Schools of fish self-organize.	Tru	Page	
Statement 1	Without denticles, the shark wou cause whirling masses of water.	JID Tru	Page	

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NAME DATE

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

- 1. The long, stiff wing feathers that birds use to fly are known as flight feathers or .
- 2. The McLaren P1 is a \_\_\_\_\_ car.
- 3. Car sensors may use cameras, radar, or waves.
- 4. Killer whales are some of the \_\_\_\_\_\_ animals in the ocean.
- 5. Thanks to their \_\_\_\_\_\_ sharks have few to no parasites.
- 6. The edge of an owl feather has a comb-like pattern.



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NAME DATE

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

Each Shinkansen train can carry more than this many people.	25
An octopus can briefly move at speeds of up to this many miles per hour when swimming.	199
Shinkansen trains carry this many million passengers each year.	1,000
In Japan, bullet trains carry travelers as fast as this many miles per hour.	80
This percentage of fish live in schools at some point during their lives.	151
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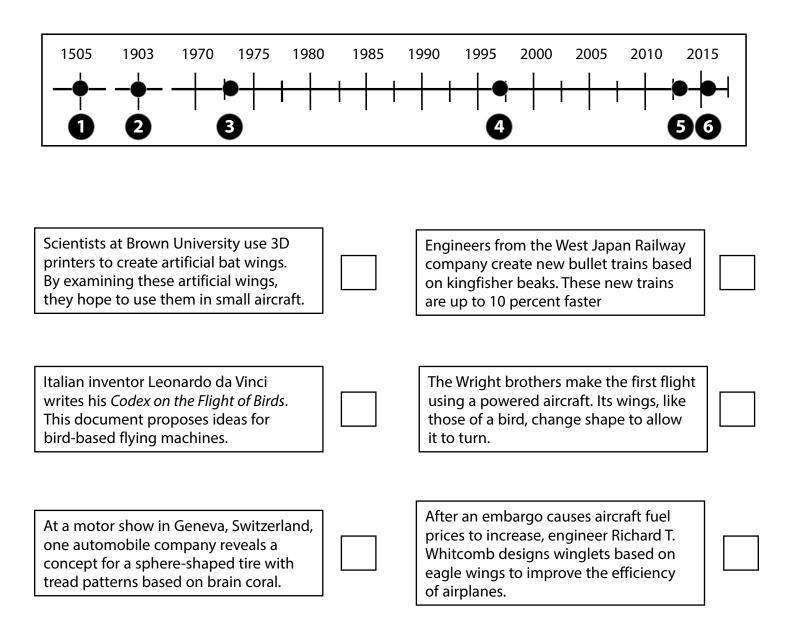
**Reference: All Pages** 

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NAME

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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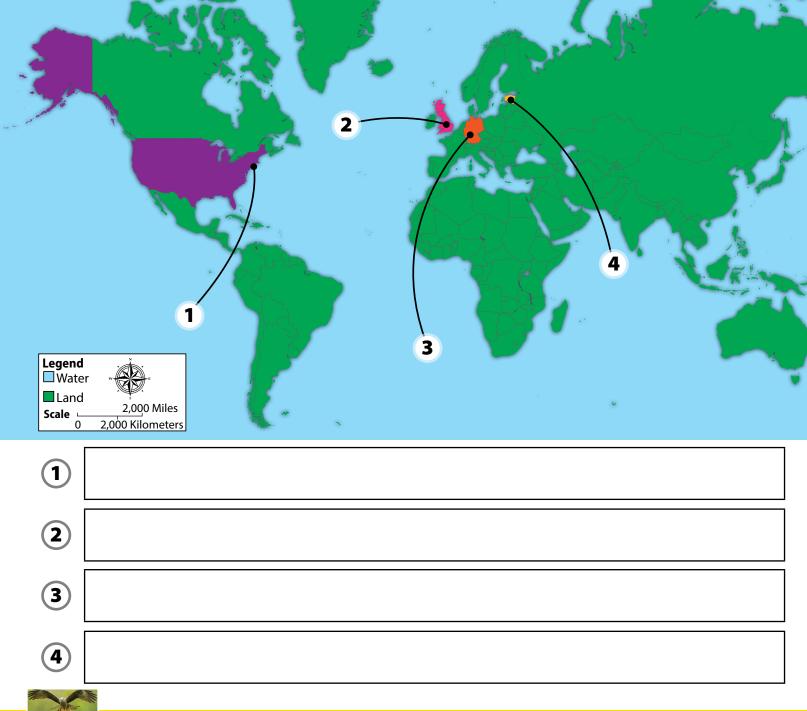
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Map Activity Follow the instructions to complete the activity. NAME

DATE

Using the information on pages 28–29 of the book, fill in the blanks with the development relating to Transportation 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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DATE

Do	o schools of fish have leaders?	
W	hen was the first human flight that used a powered aircraft?	
WI	'hat is a denticle?	
W	hat is the vertical wing tip used on airplanes called?	
WI	hat animal inspired the noses of Japan's bullet trains?	
WI	/here is an octopus's funnel?	
	hich university had researchers develop a method of underwater propuls n sea turtle flippers?	ion bas
W	/hat are bird bones filled with?	
WI	'hich birds are known for their quiet flights?	
WI	hat animal inspired the McLaren P1?	
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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

**KEY WORDS** our Score IS fringe artificial exoskeleton fertilizer ducts drag parasites lift efficient bacteria 1. 6. made by humans instead of a skeleton outside the body. occurring naturally 2. accomplishing as much as possible with 7. as little effort or resources as possible tubes used to carry air 3. 8. the force of air pushing back against animals or plants that live on or in a moving object other living things 4. 9. a substance that helps plants grow upward movement 5. 10. single-celled living things. They can be a border of loose or hanging material useful or harmful. in the shape of strips or strings



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1	No
2	1903
3	A tooth-like scale on a shark's body
4	A winglet
5	A kingfisher
6	Slightly below its eye
7	Tallinn University of Technology, in Estonia
8	Hollow pockets of air
9	Owls
10	The sailfish



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