



COMPREHENSION QUESTIONS

WORLD'S FASTEST AIRCRAFT

1. Write a sentence describing the main ideas of Chapter 2.

2. Would you want to fly in a supersonic plane? Why or why not?

3. What is the fastest jet plane?
 - A. the X-1
 - B. the SR-71
 - C. the MiG-31

4. Why might countries make laws against supersonic flights?
 - A. People don't want to go places quickly.
 - B. People don't want noise and damage from sonic booms.
 - C. People don't want planes to save fuel.



5. What does **protects** mean in the *World's Fastest Aircraft* book?

*But the pilot's suit **protects** him. He flies safely home.*

- A. keeps safe
- B. creates danger
- C. causes sadness

6. What does **develop** mean in the *World's Fastest Aircraft* book?

*But planes take years to **develop**. For example, in 2021, work on the SR-72 entered its eighth year.*

- A. to take pictures
- B. to stop trying
- C. to plan how to make



ANSWER KEY FOR WORLD'S FASTEST AIRCRAFT

1. Answers will vary
2. Answers will vary
3. B
4. B
5. A
6. C



COMPREHENSION QUESTIONS

WORLD'S FASTEST ANIMALS

1. Write a sentence describing how an animal's size relates to its top speed.

2. Would you want to race a cheetah? Why or why not?

3. Which animal is the fastest long-distance runner?
 - A. cheetah
 - B. greyhound
 - C. pronghorn

4. Why would having long legs help an animal run quickly?
 - A. The animal would have smaller leg muscles.
 - B. The animal would cover more ground with each step.
 - C. The animal would be more likely to fall.



5. What does **traits** mean in the *World's Fastest Animals* book?

*Fast animals have several **traits** in common. They have long legs. And they have sleek bodies.*

- A. details about how something looks
- B. facts about where something lives
- C. plans for the future

6. What does **swiftest** mean in the *World's Fastest Animals* book?

*Cheetahs hunt some of the other **swiftest** animals. Wildebeests can run 50 miles per hour (80 km/h).*

- A. slowest
- B. fastest
- C. sleepest



ANSWER KEY FOR WORLD'S FASTEST ANIMALS

1. Answers will vary
2. Answers will vary
3. C
4. B
5. A
6. B



COMPREHENSION QUESTIONS

WORLD'S FASTEST CARS

1. Write a sentence that explains the main ideas of Chapter 2.
2. If you could ride in any hypercar, which one would you choose? Why?
3. When did cars reach speeds of 200 miles per hour (322 km/h) for the first time?
 - A. 1890s
 - B. 1950s
 - C. 1980s
4. What might happen if a hypercar didn't have a spoiler?
 - A. The driver might get a ticket.
 - B. The car might lift up off the road.
 - C. The engine might stop working.



5. What does **skilled** mean in the *World's Fastest Cars* book?

*Hypercars are hard to control at high speeds. Only **skilled** drivers can use them.*

- A. good
- B. new
- C. slow

6. What does **materials** mean in the *World's Fastest Cars* book?

*So, car designers use the lightest **materials** possible. The McLaren F1 was one of the first cars with a carbon-fiber body.*

- A. how much things weigh
- B. things that items are made from
- C. people who come up with ideas



ANSWER KEY FOR WORLD'S FASTEST CARS

1. Answers will vary
2. Answers will vary
3. C
4. B
5. A
6. B



COMPREHENSION QUESTIONS

WORLD'S FASTEST MOTORCYCLES

1. Write a few sentences explaining the main ideas of Chapter 3.

2. Do you think superbikes should have speed limiters? Why or why not?

3. When did the world's first motorcycle come out?
 - A. 1894
 - B. 1925
 - C. 1980

4. What would happen if a motorcycle did not have a supercharger?
 - A. The bike would not be able to cut through the air.
 - B. The bike would not gain speed as quickly.
 - C. The bike would be too heavy to ride.



5. What does **streaks** mean in the *World's Fastest Motorcycles* book?

*The rider shifts into high gear. The Ninja **streaks** across a long bridge.*

- A. falls apart
- B. travels slowly
- C. moves at a fast speed

6. What does **competed** mean in the *World's Fastest Motorcycles* book?

*Kawasaki, Honda, and Suzuki were three top companies. They all **competed** to make the fastest bike.*

- A. tried to be the best
- B. stopped making motorcycles
- C. cheated to win



ANSWER KEY FOR WORLD'S FASTEST MOTORCYCLES

1. Answers will vary
2. Answers will vary
3. A
4. B
5. C
6. A



COMPREHENSION QUESTIONS

WORLD'S FASTEST ROLLER COASTERS

1. Write a few sentences explaining the main ideas of Chapter 4.
2. Would you like to work as a roller coaster designer? Why or why not?
3. What material were early roller coasters made from?
 - A. metal
 - B. steel
 - C. wood
4. Why would tall hills help roller coasters go faster?
 - A. Taller hills are easier for coasters to move up without chains.
 - B. Taller hills let coasters gain more speed from the pull of gravity.
 - C. Taller hills can't use hydraulics.



5. What does **sharp** mean in the *World's Fastest Roller Coasters* book?

*Riders scream as they turn a **sharp** corner. The train is nearly sideways.*

- A. having a large group of people
- B. having a loud noise
- C. having a quick change in direction

6. What does **launch** mean in the *World's Fastest Roller Coasters* book?

*Powerful magnets **launch** the train. The train gains speed very quickly.*

- A. to send something forward at a high speed
- B. to pull something backward slowly
- C. to stick two things together



ANSWER KEY FOR WORLD'S FASTEST ROLLER COASTERS

1. Answers will vary
2. Answers will vary
3. C
4. B
5. C
6. A



COMPREHENSION QUESTIONS

WORLD'S FASTEST SPACECRAFT

1. Write a sentence that explains the main ideas of Chapter 3.

2. Would you like to travel in a spacecraft? Why or why not?

3. What was the name of the first spacecraft?
 - A. Parker Solar Probe
 - B. Voyager 1
 - C. Sputnik 1

4. What might happen if a rocket did not have stages?
 - A. It might give a spacecraft too much thrust.
 - B. It might not have enough power to leave Earth.
 - C. It might go much faster than a rocket with stages.



5. What does **record** mean in the *World's Fastest Spacecraft* book?

*In April 2021, the probe sets a new **record**. It goes more than 330,000 miles per hour (531,000 km/h). No spacecraft had ever gone faster.*

- A. something that is worse than all others
- B. something that is faster than all others
- C. something that is older than all others

6. What does **astronauts** mean in the *World's Fastest Spacecraft* book?

*In 1969, **astronauts** flew to the moon. Their Apollo 10 spacecraft went more than 24,000 miles per hour (38,600 km/h).*

- A. people who drive cars
- B. people who travel in space
- C. people who build spacecraft



ANSWER KEY FOR WORLD'S FASTEST SPACECRAFT

1. Answers will vary
2. Answers will vary
3. C
4. B
5. B
6. B



COMPREHENSION QUESTIONS

WORLD'S FASTEST TRAINS

1. Write a sentence describing how a maglev train works.

2. Would you want to ride a high-speed train? Why or why not?

3. Which country built the first high-speed train?
 - A. Japan
 - B. China
 - C. France

4. Why would a flat track help a train go faster?
 - A. The train wouldn't lose speed when going up slopes.
 - B. The train wouldn't need a driver.
 - C. The train would never need to stop.



5. What does **expensive** mean in the *World's Fastest Trains* book?

*Building new tracks for high-speed trains costs a lot. Fuel can be **expensive**, too.*

- A. having a high price
- B. having a low price
- C. having the wrong shape

6. What does **require** mean in the *World's Fastest Trains* book?

*These trains can often use old tracks. They also **require** less fuel.*

- A. to spend money
- B. to need something
- C. to break something



ANSWER KEY FOR WORLD'S FASTEST TRAINS

1. Answers will vary
2. Answers will vary
3. A
4. A
5. A
6. B



COMPREHENSION QUESTIONS

WORLD'S FASTEST WATERCRAFT

1. Write a sentence describing the main ideas from Chapter 2.
2. Would you want to try setting a world record for speed? If so, what record would you want to set? If not, why?
3. What is the name for a boat with a flat bottom that lifts partly out of the water at high speeds?
 - A. a hydroplane
 - B. a yacht
 - C. a sponson
4. Why would pushing against less water help boats with flat hulls go faster?
 - A. Pushing against water slows boats down.
 - B. Pushing against water helps boats turn.
 - C. Pushing against water takes less energy.



5. What does **material** mean in the *World's Fastest Watercraft* book?

*In the 1940s, people began making hulls from fiberglass. This **material** is lighter than wood or metal.*

- A. something used for cooking
- B. something used for building
- C. something that doesn't actually exist

6. What does **produce** mean in the *World's Fastest Watercraft* book?

*As a boat moves, bubbles form in the water around it. When these bubbles pop, they **produce** shock waves.*

- A. fruits and vegetables
- B. to make or cause
- C. to ignore



ANSWER KEY FOR WORLD'S FASTEST WATERCRAFT

1. Answers will vary
2. Answers will vary
3. A
4. A
5. B
6. B