How Soccer Can Help Us Understand Physics Comprehension Questions

- **1.** Once it is in motion, what does an object like a soccer ball have a natural tendency to do?
- A. It has a natural tendency to keep moving.
- B. It has a natural tendency to stop.
- C. It has a natural tendency to change direction.
- D. It has a natural tendency to slow down.

2. What does the author explain in this passage?

- A. The author explains the force of friction, using different kinds of music as examples.
- B. The author explains the sport of soccer, using examples of current teams and players.
- C. The author explains the idea of motion, using different sports as examples.
- D. The author explains the importance of bike safety, using helmets as an example.
- **3.** Swimmers wearing full-body suits that reduced underwater friction were able to swim faster than other swimmers. What evidence from the passage supports this statement?
 - A. Some swimmers shaved their entire bodies to reduce friction caused by hair and increase their speed.
 - B. After losing contests by a tenth of a second, some swimmers started ridding their bodies of hair to reduce friction.
 - C. Swimmers wearing full-body suits swam at the same speed as swimmers wearing shirts and shorts that clung closely to their skin.
 - D. Swimmers wearing full-body suits began to break world records and started winning all the races.

4. Based on the information in the passage, how can friction be described?

- A. Friction can be described as a force that acts on an object in motion and can cause the object to stop.
- B. Friction can be described as a force that acts on an object in motion and can cause the object to speed up.
- C. Friction can be described as the path an object takes after a force acts on it and causes it to move.
- D. Friction can be described as the path an object takes when a force acts on it inside a vacuum.

5. What is the passage mainly about?

- A. why swimmers and cyclists move at different speeds
- B. the motion of bodies and objects
- C. the movement of an object inside a vacuum
- D. the scientific discoveries of Sir Isaac Newton

6. Read the following sentence:

"Newton suggested that objects like the soccer ball have a natural **tendency** to keep moving. The only reason they stop, he believed, is because an unbalanced force acts on them."

What does the word **tendency** mean?

- A. a very small chance of something happening
- B. a fifty-fifty chance of something happening
- C. the fear of doing something or acting in a certain way
- D. the way something normally behaves or acts

7. Choose the answer that best completes the sentence below.
Newton suggested that a ball has a natural tendency to keep moving others believed that a ball has a natural tendency to stop.
A. although
B. because
C. before
D. later on
8. What are some things cyclists do to reduce friction?
9. According to Newton's First Law of Motion, what will happen to a soccer ball that is kicked?

10. The end of the passage states that without the forces of physics, every time you kicked a soccer ball or jumped on a bike, the ball and the bike would keep going, forever. Explain why the ball and bike would keep going, using evidence from the passage.