

Section Review

Friction: A Force That Opposes Motion

USING KEY TERMS

1. In your own words, write a definition for the term *friction*.

UNDERSTANDING KEY IDEAS

- _____ 2. Why is it easy to slip when there is water on the floor?
- a. The water is a lubricant and reduces the friction between your feet and the floor.
 - b. The friction between your feet and the floor changes from kinetic to static friction.
 - c. The water increases the friction between your feet and the floor.
 - d. The friction between your feet and the floor changes from sliding kinetic friction to rolling kinetic friction.

3. Explain why friction occurs.

4. How does the roughness of surfaces that are touching affect the friction between the surfaces?

5. Describe how the amount of force pushing two surfaces together affects friction.

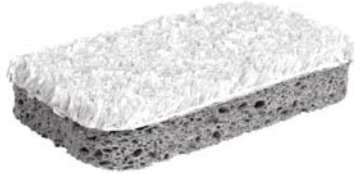
6. Name two ways in which friction can be increased.

7. List the two types of friction, and give an example of each.

Section Review *continued*

INTERPRETING GRAPHICS

8. Why do you think the sponge shown below has a layer of plastic bristles attached to it?



CRITICAL THINKING

9. **Applying Concepts** Name two ways that friction is harmful and two ways that friction is helpful to you when riding a bicycle.

10. **Making Inferences** Describe a situation in which static friction is useful.
