

Name: _____

Date: _____



GENIUSCHALLENGE

PATTERNS OF MOTION & FRICTION

1. What is a pendulum?

2. What is resistance to motion called? _____

3. Why can rubbing two sticks together quickly start a fire? _____

4. How is friction reduced between an air hockey puck and the table?

5. Which of these increases the friction of someone walking on the floor?

a. sand paper

b. grease

c. oil

d. banana peel

6. True or false: the tread on car tires is just for decoration. _____

7. List two things affected by friction.

1. _____ 2. _____

8. In the big pendulum Izzy and Zoe made, how does each component swing?

9. How are the interesting patterns created by the swinging blocks?

10. What causes a swinging pendulum to slow down over time? _____