8the Grade Science Student\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Redlands Middle School Date\_\_\_\_\_\_\_\_\_\_ Score \_\_\_\_\_\_\_ /4

**Force and Motion Demo: Skill Check**

**Learning Targets: I can identify a force as a push or a pull.**

**I can identify motion as a change of position of an object.**

1. Newton’s 1st Law of Motion (also known as the Law of Inertia) has two parts:

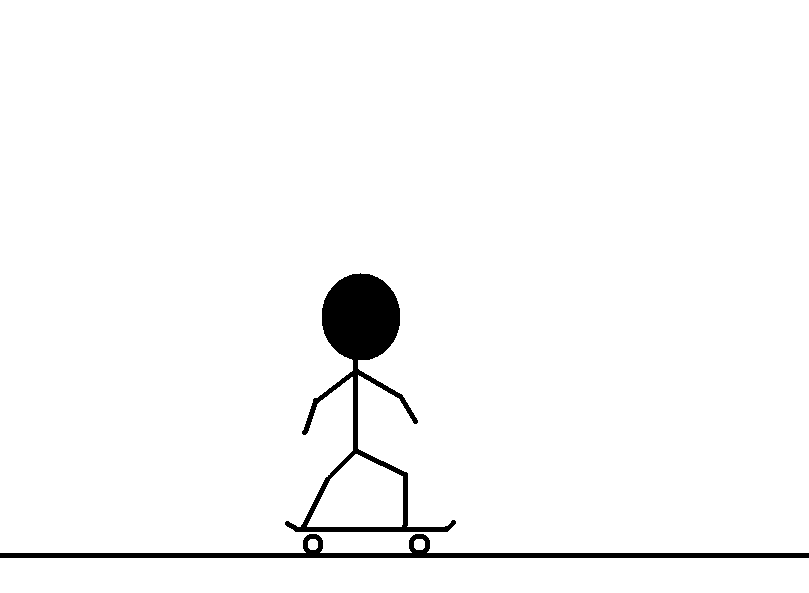
An object that is moving will \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

until \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_;

*and* an object that is not moving will \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

until \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Identify (label) the forces indicated by the arrows on the diagram of a skateboarder heading down a hill.



2 sources of FRICTION

1. Which of the following choices are associated with the term: FORCE? \_\_\_\_\_

A. A push or a pull on matter

B. Gravity

C. Friction

D. None of these.

E. A, B, & C.

1. How can you tell whether motion (movement has occurred?

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1. How long will this golf ball sit on the tee?

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1. What is the alternative name for Newton’s First Law of Motion? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Inertia is …. \_\_\_\_

F. A push or pull on an object

G. The tendency of an object to resist change in motion

H. The speed of an object and the direction of its motion

J. The rate of change of an object’s motion