

PRACTICE

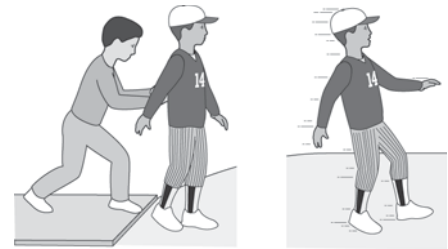
**Activity 3: A Frictionless World?**

Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_

1. Suppose some students played on a frictionless baseball field. How would the lack of interactions affecting their motion change their baseball game? List as many ways as you can think of.



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2. Suppose you and a friend could play baseball on the frictionless field described above.
- a) Suppose your friend pushes you from the sidelines onto the frictionless field. What kind of motion will you have *during* the push?

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- c) What kind of motion will you have as you slide across the frictionless field? Why?

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3. Write a ten-sentence paragraph (or more!) inventing your own situation in which there are no interactions affecting motion. Be sure to describe whether objects are *speeding up*, *slowing down*, or *have constant speed*.

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