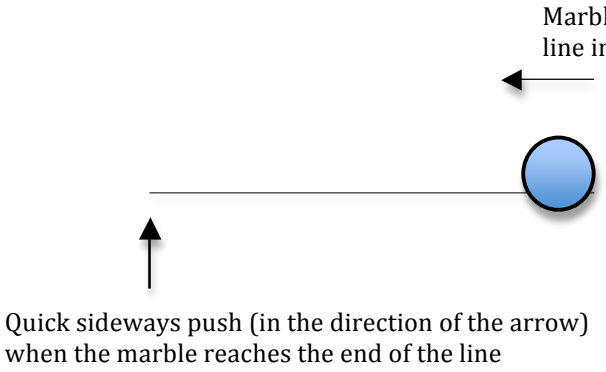
Name:

2-D Force and Motion Activity: What You've Learned

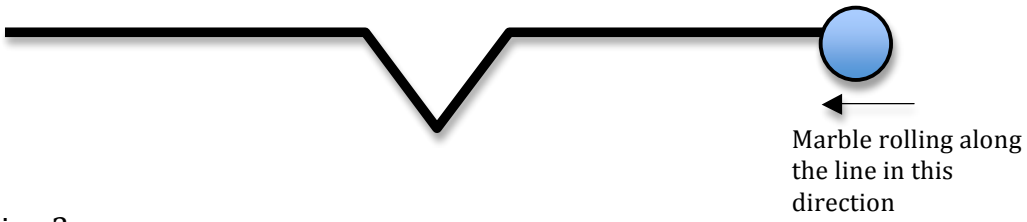
Question 1

On the drawing below, draw the path that the marble takes after it is pushed by the brief sideways force (at the end of the line).



Question 2

A marble is rolling on the path shown below. Three different puffs of air are needed to keep the marble moving on the path. Use arrows to show the position and direction of these three brief puffs of air.



Question 3

a. Draw an interesting path that would be difficult for a marble to follow, even if someone were blowing on the marble with a straw.

b. Use an X to mark a location on the path where a marble would be likely to leave the path, even if someone were blowing on the marble.

c. Explain why it would be hard to keep the marble on the path at the location that you marked with an X.

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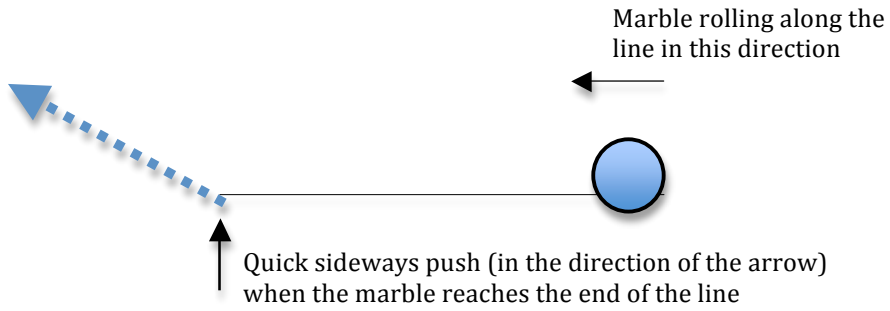
Sample Correct Answers

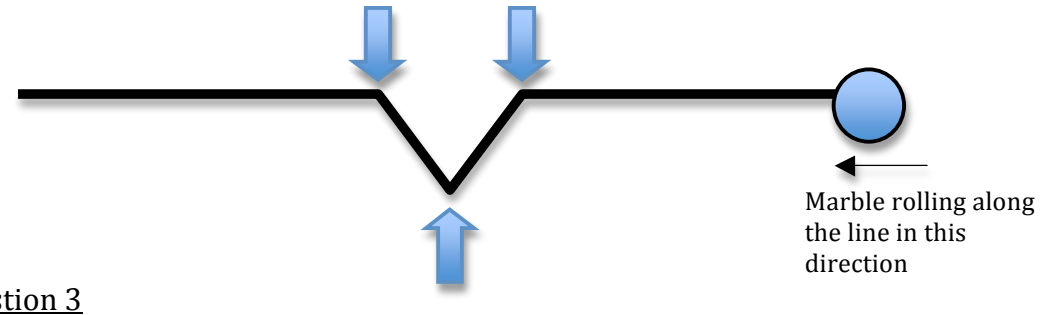
Question 1

On the drawing below, draw the path that the marble takes after it is pushed by the brief sideways force (at the end of the line).



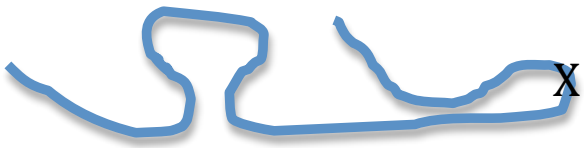
Question 2

A marble is rolling on the path shown below. Three different puffs of air are needed to keep the marble moving on the path. Use arrows to show the position and direction of these three brief puffs of air.



Question 3

a. Draw an interesting path that would be difficult for a marble to follow, even if someone were blowing on the marble with a straw.



b. Use an X to mark a location on the path where a marble would be likely to leave the path, even if someone were blowing on the marble.

c. Explain why it would be hard to keep the marble on the path at the location that you marked with an X. *You would have to blow really hard with the straw in just the right direction to get the marble to make such a big turn.*