

## Thinking Like a Scientist: Predicting

Use what you know about Newton's laws of motion to answer the questions below.

1. One soccer ball rolls across a smooth parking lot, and another rolls across grass. Which soccer ball will roll the greater distance? Explain why.

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2. You throw two baseballs. You throw one against the wind, and the other with the wind. Which ball will travel farther? Explain why.

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3. You are going to throw a baseball and a bowling ball with the same amount of force. Which ball will travel the least distance? Which of Newton's laws helps you predict the answer?

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4. You are playing tetherball. You are hitting the ball in a circular motion when the ball comes loose from the string. What will happen to the ball? How do you know?

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5. Brenda pulls a wagon that is loaded with a bag of empty aluminum cans. Joe pulls a wagon that is loaded with newspapers and magazines. Who needs to pull with more force—Brenda or Joe? Explain why.

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