



# Races: Student Activity Sheet

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Explore

### Part 1: Single Ball Exploration

1. Be sure to set up your ramp.
2. Take the ping pong ball, marble, and wooden ball out of the bag. Place them on the table and **do not roll them down the ramp**. Roll them around on the table to see how they move.
3. Predict which ball will reach the finish line first, second, and third when rolled down the ramp. Explain your ideas for your prediction.

	Ball
1st	
2nd	
3rd	

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4. Place the ping pong ball at the top of the ramp. Release it and watch the ping pong ball cross the finish line. If the ping pong ball does not cross the finish line, try again. Write down your observations.

Ball	Observations
Ping Pong	
Marble	
Wooden	

### Part 2: Races - Test Your Prediction

- Place the craft stick across the top of the ramp.
- Place the ping pong ball and marble at the top of the ramp. The craft stick will stop them from rolling down the ramp.
- To start the race, lift up the craft stick and watch the two balls race across the finish line. Circle the winner in the **Race Results** chart under **Race #1**.

### Race Results

Race 1		Race 2		Race 3	
Ping Pong	Marble	Ping Pong	Wood	Marble	Wood
					
					
					

4. Repeat Step 3 two more times.
5. Repeat steps 1-4 with the ping pong ball and the wooden ball. Record your results under **Race #2**.
6. Repeat steps 1-4 with the marble and the wooden ball. Record your results under **Race #3**.
7. Rank the balls from fastest to slowest based on your results. Explain how you determined your results.

	Ball
<b>Fastest</b>	
<b>Slowest</b>	

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8. Compare the results to your prediction from **Part 1**. \_\_\_\_\_

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## Explain

1. After you watch the video write a one sentence summary of what you learned.

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2. What are the two fastest insects? \_\_\_\_\_

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3. What is the main idea of the passage? \_\_\_\_\_

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## Elaborate

### Part 3: How Much Time Did Each Ball Take?

You will need a timing device for this activity.

1. Place the marble at the top of the ramp.
2. Release the marble from the top of the ramp and **start the timer when the marble first touches the surface (crosses the start line). Stop when it crosses the finish line.** Do this a few times to practice.
3. After you practice, time the marble. Record your results in the chart.

Ball	Time
Marble	
Ping Pong	
Wooden	

4. Repeat **steps 1-3** with the ping-pong ball and wooden ball.

### Evaluate

1. Explain the results of the marble and wooden ball using the words faster, slower, and time. \_\_\_\_\_

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### The Berenstein Bears and the Big Road Race

1. How did the other cars feel toward red? Use text evidence to support our answer.

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2. How did the fast food store impact the race? Use text evidence to support our answer. \_\_\_\_\_

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3. Summarize the story using specific details from the text.

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