

Name: _____

Date: _____

Student Exploration: Measuring Motion

Vocabulary: distance, speed

Prior Knowledge Questions (Do these **BEFORE** using the Gizmo.)

The **speed** of an animal is how fast it is moving. A speed of 5 m/s (meters per second) means that the animal moves a **distance** of 5 meters every second.

1. How would you measure the speed of an animal? _____

2. What do you think are the fastest animals? _____

Gizmo Warm-up

You have been sent on an African safari by *International Geography* magazine. Your assignment is to find the fastest land animals in the world. Your only tool is a video camera.

The safari is shown in the *Measuring Motion* Gizmo™.

1. On the **Safari Adventure** tab, wait for an animal to pass by. Press the **record** button (📹). Press **stop** (⏏) when the animal has passed by.
 - A. Which animal did you record? _____
 - B. Was the animal walking or running? _____
2. Select the **Playback** tab. Practice using some of the different buttons on this tab:
 - Use the **Play** (▶) button to replay the simulation.
 - Click **Rewind** (◀) to go back to the beginning.
 - Click **Advance frame** (⏭) to move forward exactly one second at a time.
 - Drag some **arrows** (📏) onto the recording to mark the positions of the animals at different times. (The arrows are on the left side of the Gizmo.)
 - Use the **Time slider** to go to a specific time.



Teacher Exploration Measuring Motion Answer Key

ML Morrison



Teacher Exploration Measuring Motion Answer Key:

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