



Name: Addison Cuevas

Date: 08-12-2022

Student Exploration: Measuring Motion

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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 6 m/s (meters per second) means that the animal moves a **distance** of 6 meters every second.

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

Simply dividing the distance traveled by the time it took the animal to move.

2. What do you think are the fastest animals?

I believe that a peregrine falcon is the quickest animal.

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.

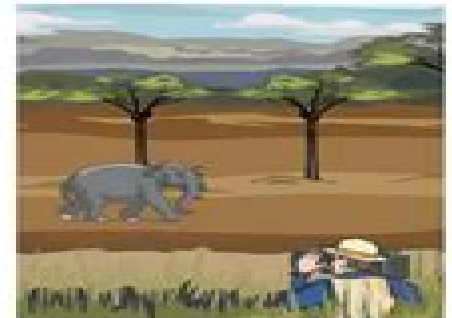
1. On the SAFARI ADVENTURE tab, wait for an animal to pass by. Press the record button (). Press stop () when the animal has passed by.

- A. Which animal did you record?

A lion

- B. Was the animal walking or running?

It was on foot.



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.
- Click Tools at upper left, and drag some arrows () onto the recording to mark the positions of the animals at different times.
- Use the Time slider to go to a specific time.

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Baby Professor



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