

Student Exploration: Measuring Motion

Vocabulary: distance, speed

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

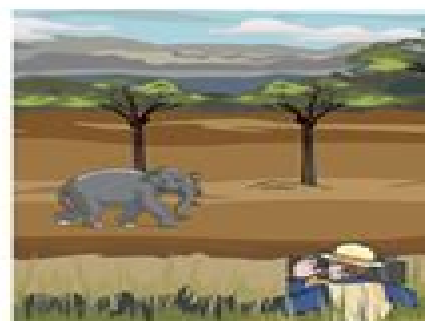
The **speed** of an animal is how fast it is moving. A speed of 6 m/s (meters per second) means that the animal moves a **distance** of 6 meters every second.

1. How would you measure the speed of an animal?
The distance and how long it took to move.
2. What do you think are the fastest animals?
Cheetah, Pronghorn

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? Giraffe
 - B. Was the animal walking or running? Walking
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.

Activity A:

Estimating speed

Get the Gizmo ready:

- Select the SAFARI ADVENTURE tab.
- Remove all **arrows** from the screen.
- A calculator is recommended for this activity.



Students Exploration Measuring Motion

Terry C. Jones



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