



## 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?

by how long it took and how long it ran, distance divided by time

2. What do you think are the fastest animals?

cheetahs, lions kinds of fish etc.

### **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.

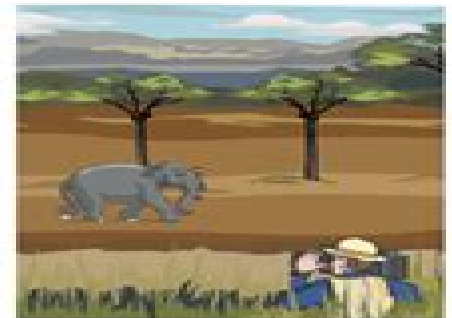
1. On the SAFARI ADVENTURE tab, wait for an animal to pass by. Press the **record** button (  ). Press **stop** (  ) when the animal has passed by.

- 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.

# Measuring Motion Gizmo Answer

**G Psacharopoulos**



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web jul 1 2021 1 introduction hallux valgus is one of the most common forefoot pathologies encountered in orthopaedic practice the latin word bunion meaning a turnip does not do justice to this complex deformity hallux valgus is a complex three dimensional deformity commonly associated with deformities of the lesser toes

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web sep 29 2022 background hallux valgus is a deformity at the base of the big toe or metatarsophalangeal mtp joint in which the great toe hallux is deviated or points toward the lesser toes in severe types of the deformity the great toe goes over or under the second toe the head of the first metatarsal does not have any musculotendinous attachments

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