



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.

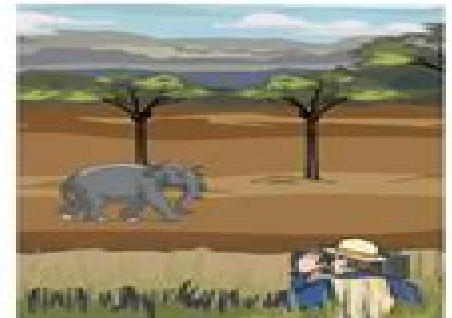
1. On the SAFARI ADVENTURE tab, wait for an animal to pass by. Press the record button (). Press stop () when the animal has passed by.

- 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.

Answer To Gizmo On Measuring Motion

Frank Longo

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answer To Gizmo On Measuring Motion:

Vowelless Crosswords Frank Longo, 2009-06 What's better than crosswords? That's right, crosswords with no vowels! At first these challenging but fiendishly fun puzzles look like the usual crossword. But there's a devilish twist: you write only the consonants in the boxes, not the vowels. So when you look at the grid, there's no quick way to know exactly how many letters make up the right solution. Plus, because you don't need as many spaces for each word, the phrases can be longer than usual, and that makes the grids wide open and ratchets up the difficulty level. For those who need a little extra help, there's a hints section to tear out and refer to when needed, as well as grids with wordlists explaining, with vowels, what the answers are. Billboard, 1954-03-20 In its 114th year, Billboard remains the world's premier weekly music publication and a diverse digital events brand content and data licensing platform. Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music, video, gaming, media, digital, and mobile entertainment issues and trends. Running Times, 2008-04 Running Times magazine explores training from the perspective of top athletes, coaches, and scientists; rates and profiles elite runners; and provides stories and commentary reflecting the dedicated runner's worldview. Congressional Record, United States Congress, 1969 Roget's Thesaurus of English Words and Phrases George W. Davidson, 2002 Suitable for speakers and writers of English, this thesaurus groups words thematically, thus offering the writer and speaker a creative and subtle means of finding new ways to express their thoughts. New York Magazine, 1991-03-11 New York Magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country. With award-winning writing and photography covering everything from politics and food to theater and fashion, the magazine's consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea. New Scientist, 2007 Engineering Education, Preparation for Life American Society for Engineering Education. Conference, 1984 Chicago Tribune Index, 2003 Proceedings American Society for Engineering Education. Conference, 1984

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