

|                                                 |                                                                                                                                                                                                                          |                                                                                     |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Activity B:</b><br><br><b>Who's fastest?</b> | <u>Get the Gizmo ready:</u> <ul style="list-style-type: none"> <li>• Select the SAFARI ADVENTURE tab.</li> <li>• Remove all arrows from the screen.</li> <li>• A calculator is recommended for this activity.</li> </ul> |  |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

**Question: Which animal is the fastest?**

1. Form hypothesis: Watch the SAFARI ADVENTURE tab for a while. Based on your observations, which animals run the fastest?

The cheetah will be the quickest animal if we compare how quickly every other living thing moves.

2. Measure: For each animal, measure distance traveled and time using any method you wish. Divide distance by time to calculate speed. Measure running animals only.

| Animal/object |                                                                                     | Distance (m) | Time (s) | Speed (m/s) |
|---------------|-------------------------------------------------------------------------------------|--------------|----------|-------------|
| Cheetah       |    | 5            | .2       | 25 m/s      |
| Eagle         |    | 10           | .6       | 16.67 m/s   |
| Elephant      |    | 10           | 1.8      | 5.56 m/s    |
| Gazelle       |    | 10           | .8       | 12.5 m/s    |
| Giraffe       |    | 15           | 1.2      | 12.5 m/s    |
| Jeep          |    | 10           | .5       | 20/s        |
| Lion          |    | 15           | 1        | 15m/s       |
| Person        |    | 10           | 8        | 12.5 m/s    |
| Rhino         |   | 20           | 2.7      | 7.41 m/s    |
| Warthog       |  | 5            | .7       | 7.14 m/s    |
| Zebra         |  | 10           | .6       | 16.67 m/s   |

3. Analyze: What is the fastest animal/object?

The swiftest animal is a cheetah.

Slowest?

The slowest animal is an elephant.

4. Convert: There are 1,000 meters in a kilometer, and 3,600 seconds in an hour. You can convert units of meters per second (m/s) into kilometers per hour (km/h) by multiplying by 3,600 and dividing by 1,000. (Hint: That is the same thing as multiplying by 3.6.)

# Answers Sheet Measuring Motion Gizmo

**Roman Wölfel**

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.

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