



Dear 5th graders,

It is hard to believe we will not be ending the year together. I miss everyone so much. Keep working hard, I have talked to most of you, and I know you are putting forth a lot of effort. I had a fabulous year teaching science all day. Remember to continue to communicate with me through google classroom (stream), google meets, email, gmail, and Remind. Remember to come back and visit me next year, Stay in contact. Have a great summer!

Love,

Miss Heinz

### Week 7 May 4 -8



- Finish any work from the previous weeks, so you can receive credit.
- Calculating Speed Video. <https://www.youtube.com/watch?v=e28-lcdAMHg>
- Complete “Toys in Motion” Experiment. If you do not have the materials at home, please complete the “What’s Their Speed?” worksheet.

### Week 8 May 11-15



- Finish any work from the previous weeks, so you can receive credit.
- Complete Gizmo: “Measuring Motion.” If you do not have access to the internet, complete the paper and pencil version.

### Week 8 May 11-15



- Finish any work from previous weeks, so you can get credit.
- Watch the Bill Nye Video: “Motion.” If you do not have access to the internet, you can complete the handout.  
<https://www.youtube.com/watch?v=eT4n3dzkG3w>

# Instead of Experiment What's their Speed?

Remember:  $\text{Speed} = \text{Distance} \div \text{Time}$



Car Name:	Time it took to finish the Race:	Distance:	Speed (miles/minutes):
Brown Bolt	15 minutes	100 miles	$S = D/T$ $S = 100/15$ $S = 6.67$ miles per minute
The Blizzard	20 minutes	100 miles	$S = D/T$ $S = \underline{\quad}/\underline{\quad}$ $S =$
Striped Panther	25 minutes	100 miles	$S = D/T$ $S = \underline{\quad}/\underline{\quad}$ $S =$
Revvin' Kevin	12 minutes	100 miles	$S = D/T$ $S = \underline{\quad}/\underline{\quad}$ $S =$
Mr. Lightning	10 minutes	100 miles	$S = D/T$ $S = \underline{\quad}/\underline{\quad}$ $S =$
Now You See Me	17 minutes	100 miles	$S = D/T$ $S = \underline{\quad}/\underline{\quad}$ $S =$
Flamin' Wheels	18 minutes	100 miles	$S = D/T$ $S = \underline{\quad}/\underline{\quad}$ $S =$

# Student Exploration: Measuring Motion

## Gizmo: Paper and Pencil Version

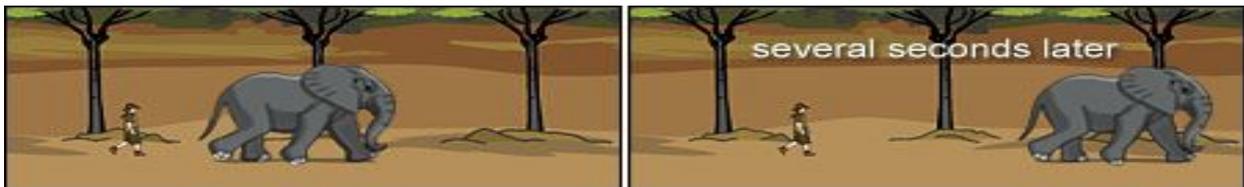
Name: \_\_\_\_\_

### Prior Knowledge Questions:

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. How would you measure the speed of an animal?

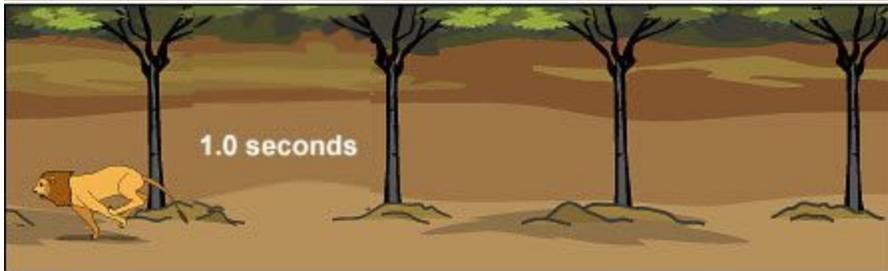
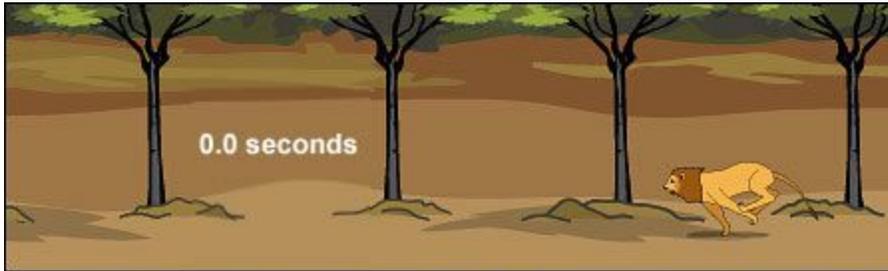
1. What do you think are the fastest animals?

1. The person and elephant are traveling from left to right. The second photo was taken a few seconds after the first. Who is traveling faster?



- A. The person is walking faster.
- B. The elephant is walking faster.
- C. They are traveling at the same speed.
- D. Impossible to determine.

2. What is the best estimate of this lion's speed? (The trees are 5 meters apart.)



- A. 5 m/s
- B. 10 m/s
- C. 15 m/s
- D. 20 m/s

3. What is the best estimate of this zebra's speed? (The trees are 5 meters apart.)



- A. 5 m/s
- B. 8 m/s
- C. 12 m/s
- D. 15 m/s

4. This giraffe walks at a speed of 2 meters per second. Where will the giraffe be 5 seconds from now? (The trees are 5 meters apart.)



- A. Photo A
- B. Photo B
- C. Photo C
- D. Photo D

# Force and Motion (instead of Bill Nye Video)

Name: \_\_\_\_\_

1. Force is a \_\_\_\_\_ or a \_\_\_\_\_.
2. Does force always result in movement? Yes or No? \_\_\_\_\_
3. Which of these will force NOT change about an object?
  - A. Color
  - B. Position
  - C. Shape
  - D. Movement

Match the Force with its description

- |   |              |
|---|--------------|
| _____ 4. A force that slows or stops motion when objects rub together         | A. Magnetism |
| _____ 5. A force that attracts objects made of steel, iron, nickel, or cobalt | B. Gravity   |
| _____ 6. A force that pulls objects to the center of the Earth                | C. Friction  |

Give an example of each of the following:

7. A PUSHING force: \_\_\_\_\_

8. A PULLING force: \_\_\_\_\_

9. In your own words, explain why you don't fall off the planet.

---

---

---

---