Pre-Activity Evaluation Answers

1.	List all of the units that you know and can think of. Example acceptable answers for <u>length</u> : meter, foot, mile, centimeter, kilometers, etc.; for <u>time</u> : second, hour day, year, etc.; for <u>weight</u> (kilograms, grams, pound, etc.; for <u>speed</u> : miles per hour, kilometers per hour, cm per second, etc.				
2.	Robots are useful in conducting scientific investigations. (circle one)				
	I strongly agree	l agree	I am neutral	I disagree	l strongly disagree
3.	I have fun while I am learning in school.				
	I strongly agree	l agree	I am neutral	I disagree	l strongly disagree
4.	I know how to measure distance traveled and time elapsed to determine an object's speed.				
	I strongly agree	l agree	I am neutral	I disagree	I strongly disagree
5.	I can identify the units used to measure speed, time and distance.				
	I strongly agree	l agree	I am neutral	I disagree	I strongly disagree
6.	I would like to use robots in science and mathematics lessons.				
	I strongly agree	l agree	l am neutral	I disagree	I strongly disagree
7.	If a ball travels 20 cm in a straight line in 5 seconds, what is the ball's speed? (circle one answer)				

A. 20 centimeters/second

B. 4 centimeters/second

- C. 4 meters/second
- D. 1 centimeter/second
- E. 5 seconds
- 8. What is the equation to determine the speed of an object? **Distance divided by time**
- 9. If a red car travels at 10 m/s and a blue car travels 15 meters in 3 seconds, which car is traveling faster? Why is it faster? How do you know? What are the units? Are they the same?

The blue cars speed is $\frac{15 \text{ meters}}{3 \text{ seconds}} = 5 \frac{m}{s}$, thus, the red car is traveling faster.

- 10. What two measurements do we need to know about an object's journey to determine its speed? **Distance and time**
- 11. Which of the following is a unit of speed? (circle one answer)
 - A. meters/kilogram B. centimeters
- C. meters/minute
 - D. centimeters/meter
 - E. seconds

Timing a Speedbot! Activity—Pre-Activity Evaluation Answers