**Pre-Activity Evaluation Answers**

1. **List all of the units that you know and can think of.**

**Example acceptable answers for length: meter, foot, mile, centimeter, kilometers, etc.; for time: second, hour day, year, etc.; for weight (kilograms, grams, pound, etc.; for speed: miles per hour, kilometers per hour, cm per second, etc.**

1. **Robots are useful in conducting scientific investigations.** (circle one)

I strongly agree I agree I am neutral I disagree I strongly disagree

1. **I have fun while I am learning in school.**

I strongly agree I agree I am neutral I disagree I strongly disagree

1. **I know how to measure distance traveled and time elapsed to determine an object’s speed.**

I strongly agree I agree I am neutral I disagree I strongly disagree

1. **I can identify the units used to measure speed, time and distance.**

I strongly agree I agree I am neutral I disagree I strongly disagree

1. **I would like to use robots in science and mathematics lessons.**

I strongly agree I agree I am neutral I disagree I strongly disagree

1. **If a ball travels 20 cm in a straight line in 5 seconds, what is the ball’s speed?** (circle one answer)
2. 20 centimeters/second
3. **4 centimeters/second**
4. 4 meters/second
5. 1 centimeter/second
6. 5 seconds
7. **What is the equation to determine the speed of an object?**

**Distance divided by time**

1. **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** $\frac{15 meters}{3 seconds}=5\frac{m}{s},$ **thus, the red car is traveling faster.**

1. **What two measurements do we need to know about an object’s journey to determine its speed?**

**Distance and time**

1. **Which of the following is a unit of speed?** (circle one answer)
2. meters/kilogram
3. centimeters
4. **meters/minute**
5. centimeters/meter
6. seconds