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**My Role \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Group Members\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Lab1: Toy Car Test

**Directions:** For this lab, your task is to determine how fast the car is moving. As a group, you must determine what materials and information you need in order to determine how fast the car is moving.

1. **Purpose:** What are you doing and why.
2. **Theoretical:** What ideas or concepts do you need to describe the motion?
3. **Procedure:** What measurements will you make and what tools will you use to make these measurements?
4. **Analysis:** Present your measurements in an organized way. Show what additional information you can get from these measurements.
5. **Conclusion:** Write two paragraphs on what you did and what you found out. Based on this, does your conclusion make sense? Why?

**I. Purpose/Question** *What is the* ***question*** *that your experiment is trying to answer?*

**II. Theoretical** ***In a paragraph form****: a description and diagrams of the concepts; the equations with a list of variables showing what each means.*

Speed is how fast an object is moving. Example: On the freeway, the *speed* limit is 65 miles per hour (mi/hr). The variable for speed is *v.*

 *v* = 65 mi/hr

**III. Procedure** *A* ***list*** *showing when and how each measurement will be made. Sketch and label the equipment set-up.*

1.

**Materials**

2.

3.

4.

5.

**IV. Analysis**

* Write down all of your data and measurements.

Trial 1 Speed of Car (show your work!!)

Trial 2

Trial 3

**Bonus!!!** Use your car to figure out how wide the classroom is. (You CANNOT just measure with a ruler)

**V. Conclusion** *In complete sentences, restate the purpose of the lab. Review how you measured your results. Re-state the results and WHY this makes sense. How can you improve for next time?*

The purpose of this lab was to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The speed of our car was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We got this result by measuring the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Our results (do / do not) make sense because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Next time, to improve our results, we can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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