MT Project **Ave. Velocity** Grading Sheet

365
MrG
Mr. Gunkelman

Names: _____

Problem ..... 2 ____
1. Which axle produces the largest <u>average velocity</u> over a 5 meter displacement?
2. Which lever arm length produces the largest <u>average velocity</u> over a 5 meter displacement?

Hypothesis: (1 pt each answer) ..... 2 _____
3. Hypothesis makes sense AND is backed up with reasoning
4. Hypothesis makes sense AND is backed up with reasoning

Materials: (Not Needed)..... 0 _____
Procedure: (Not Needed) ..... 0 _____

Picture: (at least 2)..... 1 _____

Data tables and Graphs (1 point for each DT and Graph)
Be sure to include labels and titles and to properly fill out the data tables
1. Changed the axel (Data Table)..... 6 ____
    a. All data present..... 2 ____
    b. Title and Labels ..... 2 ____
    c. Make sense ..... 2 ____
2. Changed the axel (Graph) ..... 4 ____
    a. Title and Labels ..... 2 ____
    b. Make sense ..... 2 ____
3. Changed the lever arm length (Data Table)..... 6 ____
    a. All data present..... 2 ____
    b. Title and Labels ..... 2 ____
    c. Make sense ..... 2 ____
4. Changed the lever arm length (Graph) ..... 4 ____
    a. Title and Labels ..... 2 ____
    b. Make sense ..... 2 ____
5. Qualitative for EACH ..... 2 ____

Percent Error (in observation Section)

$$\mathbf{10} - \left(\frac{\boldsymbol{percent\ error}}{\mathbf{100}} * \mathbf{15}\right) = \boldsymbol{score}$$

1. Estimating the time it will take your vehicle to go 5 meters (Axel)..... 10 ____
    a. Actual % Error _____ _____
2. Estimating the time it will take your vehicle to go 5 meters (Lever Arm) .. 10 ____
    a. Actual % Error _____ _____

Conclusion (You should have 2 of them!!)
1. Refers to both hypotheses (<u>Support/Not support</u>) ..... 4 ____
2. Explanations for each hypothesis (<u>Well thought out</u>) ..... 4 ____

Lab Report Format..... 1 ____

Total ..... 54 _____