

TUMBLE BUGGY POST-LAB REFLECTION

Directions: Please answer the following post-lab questions :

1. What was your predicted time? How confident were you in this prediction? Explain.
2. What data did you use for your prediction? Why did you decide to use this information to determine your predicted time? Explain how you arrived at your predicted time.
3. How many trials did you perform? How did you decide on this number of trials?
4. What was your actual time? Calculate the percent error for this lab activity:

$$\% \text{ Error} = \left| \frac{\text{Actual Time} - \text{Predicted Time}}{\text{Actual Time}} \right| \times 100\%$$

5. If you were to perform this lab again, what would you do differently next time? Why?

IF YOU WERE ABSENT ON MONDAY, OCTOBER 1, 2018

Directions: Complete the following questions in your journal. This will be stamped in class when you return.

Consider the following situation: You are given a battery powered car, a stop watch, and a tape measure. You are asked to collect enough data to be able to confidently predict the time it will take that car to travel a random distance between 0.5m and 5.0m without knowing the exact distance ahead of time.

1. What data would you collect in order to confidently predict the amount of time it would take to travel a random distance?
2. Why did you decide to use this information to determine your predicted time?
3. Explain the process you would use to collect your data.
4. Explain the process you would use to arrive at your predicted time once you were given a distance.
5. How many trials would you perform? How did you decide on this number of trials?