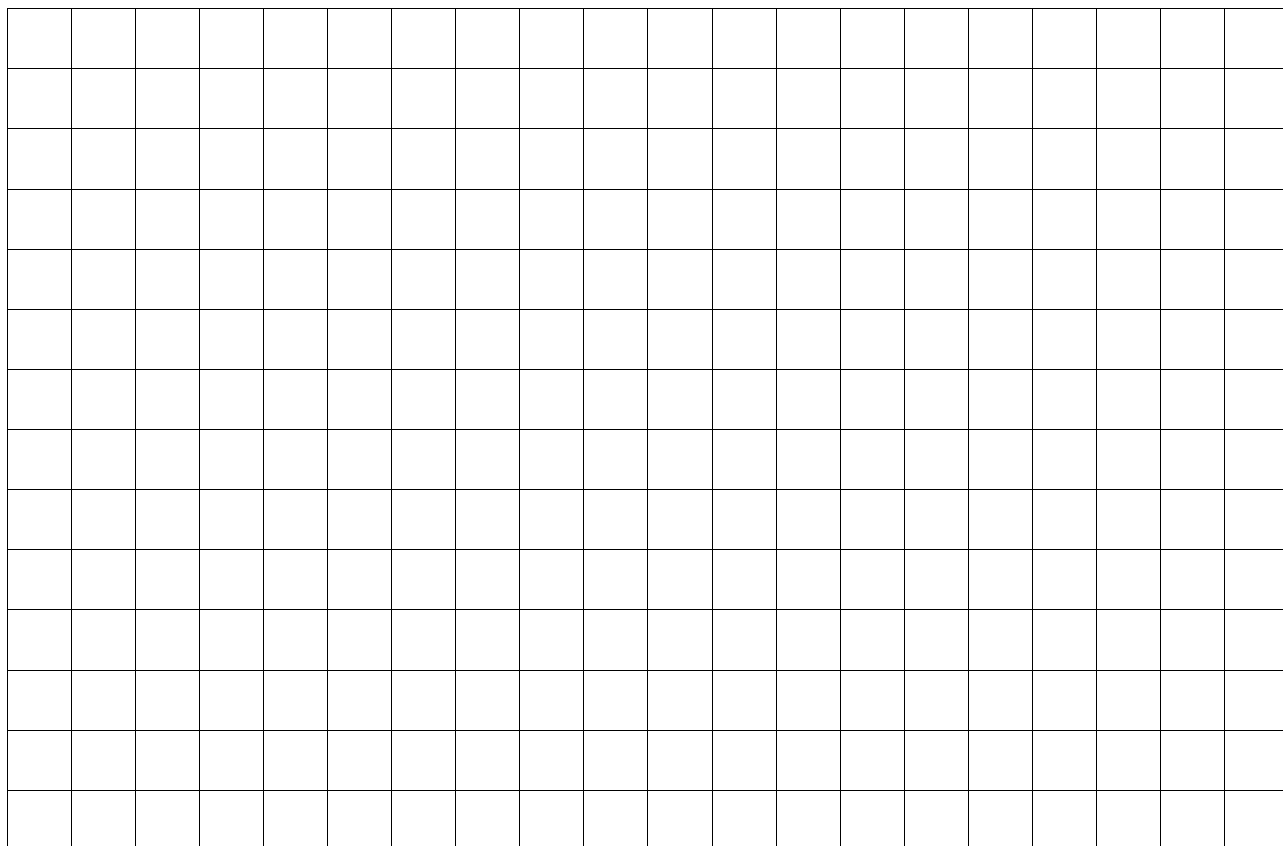**Physical Science**
Unit 2

Lab 1: Battery Car Lab

Prelab Questions: Answer questions 1-4 before you start collecting data.

1. What two variables did we decide to study?

2. Define independent variable.

3. Define dependent variable.

4. Which variable will be your independent variable? Which variable will be your dependent variable? Explain your choice.

In this lab, your goal is to investigate the relationship between the two variables stated in Q1. Each group should use two different cars. After you decide how you will measure these two variables, make sure to perform at least three trials for each car. Use the space below to draw a data table in which you record your data. Use correct column labels and units.

Use the grid below to draw a graph of your data. Plot points for both cars on the same graph but be sure to indicate which points correspond to each car.

Draw a best fit line for each car.

5. What is the slope of each best fit line?

6. Do the two best fit lines have the same slope? What does this tell you about the cars?