

Name \_\_\_\_\_

Partners name \_\_\_\_\_

## Physics Scene Investigation

### Scenario:

A vehicle is driving down a country road and suddenly realizes that it is headed straight for a cliff. The driver tries to stop the car but his breaks have failed. At the bottom of the cliff is a large pond filled with water. The pond could potentially break the cars fall. You and your partner are to determine where the pond must be placed in order to save the vehicle and its passengers.

Note: You may roll the ball down the incline and on the table. You can change the height of the incline but may not allow the marble/car to fall until you have called the teacher over for it to be tested. Take into account outside forces when placing the target during the final test. Students will have two trials but will not be able to move the target once it is place.

### Lab report should include the following

- Lab title
- Objectives
- Labeled diagram of your apparatus
- Detailed list of procedures that include associated variables
- The equations and calculations used to get your findings
- A conclusion that summarizes the activity and states your results (Values with units)
- A realistic error analysis



" I HOPE WE MAKE IT TO THE BOTTOM! WERE OUT OF GAS!"