

Name _____

Date _____ Per _____

Balloon Car Lab

1. A team will construct a balloon car and try to have it travel the farthest.
2. Teams may use all or part of the following materials.
 - a. One 4"x5" piece of tag board.
 - b. 2 large paper clips
 - c. 1 flexi straw
 - d. 2 straight straws
 - e. 100cm of masking tape
 - f. 1 x9 inch balloon
3. Balloon cars will be built and tested during the class period.
4. The winning car will have traveled the farthest.

Formal Write-up

In ink or typed. Follow the steps of the Scientific Method. Include a labeled diagram of your car as a part of your hypothesis. Make sure your conclusion contains results, how you could have improved your car and the analysis questions.

Analysis questions to be added to your conclusion.

1. How far did your car travel? What was the time your car took to travel that distance? What was the speed of your car?
2. What happened to the balloon when you released the car?
3. What would happen if you put rocks, or other heavy objects on the car body?
4. Draw a diagram of your car and show all the forces being applied.
5. How do all of Newton's 3 laws of motion apply to the movement of your car?