Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Balloon Car Conclusion Rubric**

* Student described how then following scientific laws were applied in the creation or use of his/her balloon car:

Newton’s 1st Law (inertia) \_\_\_\_\_\_/5pts

Newton’s 2nd Law (F=M x A) \_\_\_\_\_\_/5pts

Newton’s 3rd Law (Action/Reaction) \_\_\_\_\_\_\_/5pts

* Student described how the following scientific terms were applied to improve his/her car’s performance:

Sliding Friction: \_\_\_\_\_\_\_\_/5pts

Rolling Friction: \_\_\_\_\_\_\_/5pts

Fluid Friction/Air Resistance: \_\_\_\_\_\_\_/5pts

* Student described how looking at data helped make decisions about what variables to change to improve the car’s performance.

Description of data used: \_\_\_\_\_\_/5pts

Description of variables changed and why: \_\_\_\_\_\_/5pts

* Student used complete sentences and proper grammar to write his/her conclusion statement.

Complete sentences: \_\_\_\_\_\_\_/5pts

Proper Grammar: \_\_\_\_\_\_\_/5pts

* Student wrote with enough detail to show basic understanding of Newton’s Laws, the forces at work in moving the balloon car and achieving new successes with its motion.

Details to show understanding: \_\_\_\_\_\_/10pts

**Total points earned = \_\_\_\_\_\_\_/60 = \_\_\_\_\_\_\_\_ % \_\_\_\_\_\_\_\_\_**

A = 60- 54 points

B= 53-48 points

C= 47- 42 points

D= 41-36 Points

F= 35- 0 Points