Balloon Race – Physical Science Lab

Team Name: _____ Team #: _____

Competitor's Names: 1. _____ Balloon #: _____

2. _____

1. Determine the net upward force of the balloon (15 points): _____

2. Determine the Weight-Area Density of the uniform material: _____
(15 points)

Run #1

3. Determine the mass you want for a slow rise
(5 points) _____

4. Area needed to achieve this mass
(15 points) _____

5. Hand the mass and the balloon to the Event Supervisor (**DO NOT ATTACH THE MASS TO THE BALLOON**)

Scoring – Run #1

Calculation score _____ ÷ highest Calculation score _____ X 50 = _____

Run #1 time _____ ÷ longest time _____ X 50 = _____

Final Score Run 1: _____

Run #2

3. Determine the mass you want for a slow rise
(5 points) _____

4. Area needed to achieve this mass
(15 points) _____

5. Hand the mass and the balloon to the Event Supervisor (**DO NOT ATTACH THE MASS TO THE BALLOON**)

Scoring – Run #2

Calculation score _____ ÷ highest Calculation score _____ X 50 = _____

Run #2 time _____ ÷ longest time _____ X 50 = _____

Final Score Run 2: _____

Final Score: _____ **Rank:** _____