**Science 6 Flight Unit: Testing Parachute Design**

**Using three different pieces of paper (size and type of paper should be the same), you will create a different shaped parachute with each piece of paper. An object will be provided to hang from the parachute.**

1. Design a testable question related to altering drag and record it on your report sheet. You may choose to have an efficient parachute that has more drag or choose one that has less drag. The independent variable and dependent variable should be evident in the question.

2. Make a prediction of how each parachute will act in a free fall. Support your prediction using what you already know about drag.

3. Drop your parachutes from an agreed upon height above the floor. Record the time it takes for each parachute design to reach the floor. You will conduct 5 trials for each design.

4. Analyze your data and determine how each design performed compared to your predictions. Did your results match your predictions? Explain why or why not. List possible sources of error in collecting the data. **You must write your analysis in complete sentences!**

5. Write a conclusion statement for your test. Your conclusion must answer the testable question and support or not support your predictions. **Write in complete sentences!**

**Testable Question ( 1):**

**Prediction( 2):**

**Data Analysis (4)**

**Conclusion (5)**