[](http://www.google.com/imgres?q=picture+of+paper+airplane&um=1&hl=en&sa=N&rls=com.microsoft:en-us:IE-SearchBox&rlz=1I7DKUS_en&biw=1280&bih=632&tbm=isch&tbnid=JZacAsExGnJj1M:&imgrefurl=http://www.simtalk.com/news-2-you/Tuskegee/Page13.htm&docid=RVJSp5A_5EJiiM&w=213&h=181&ei=aYiQTpefBe2JsALNzfWLAQ&zoom=1)**Come Fly with Me Lab**

**QUESTION:**  How does the weight of paper affect how far a paper airplane will fly?

**Objective:** Scientists know how to use the steps of the scientific method to solve a problem/answer a question.

**HYPOTHESIS:** (If, (choice); then (prediction); because statement)

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**MATERIALS:**

* 3 papers of different weights (copy, construction, and cardstock)
* Ruler

**PROCEDURES:**

1. Select three different types of paper and ***cut them so they are all the same size.***
2. Fold the papers into airplanes. ***Make sure they are all folded the same way.***
3. Launch each airplane three different times. ***The same person should launch the airplane each time to ensure the same force is used for all trials.***
4. Using the data chart, record the distance the airplane traveled to the nearest centimeter. (ex. 7.23 meters = 7 meters and 23 centimeters)

**DATA:**

Sketch a picture of your airplane design in the box below.

**DATA CHART:**

Write in your data *(distance traveled in meters)* as you launch the planes below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type of Paper: | Trial 1 | Trial 2 | Trial 3 | **Average** |
| Cardstock: |  |  |  |  |
|  |  |  |  |  |
| Construction: |  |  |  |  |
|  |  |  |  |  |
| Copy: |  |  |  |  |

Is there any other qualitative information you observed during the experiment?

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**GRAPH:**

Using the averages ***create a bar graph on graph paper***. Don’t forget to create a title and label you axes.

**CONCLUSION:**

Remember that your conclusion should explain your results and how they relate to your question. (Repeat Hypothesis, proven or not, what did you learn, and any Research on Flight)

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