Mr. Williams’ Science Experiment Guide

|  |  |  |  |
| --- | --- | --- | --- |
| **My Name:** |  |  |  |
| **My Partner’s Name:** |  |  |  |

**Lab Title:** What’s Your Question? Become an Expert!  
  
**Question:** Given masking, Mylar, and duct tape, which type will hold the most weight when stressed in a downward direction?

|  |
| --- |
| *In cooperative groups, brainstorm how you can apply all of the processes of the scientific method to answer this question. Each group member can create a different hypothesis or procedure from their peers. Be sure to document everything completely, collect and report on data, and come to a conclusion.* |

**Hypothesis:**

|  |
| --- |
|  |

**Experimental Design:** (Please include illustrations or photographs of apparatus).

|  |
| --- |
|  |

**Materials:** Brainstorm a **complete** list of materials including brand names and quantities. *Remember, someone who is completely unfamiliar with your experiment should be able to perform it exactly the way you did from this document.*

|  |
| --- |
|  |

**Procedures:** You should need additional space to document this step. Attach additional sheets if necessary. Draw illustrations and take digital pictures of the process.

|  |
| --- |
|  |

**Observation/s:** You will need to record data for results. Take digital pictures. Use a spreadsheet and attach printouts. All participants will need their own complete documentation.

|  |
| --- |
|  |

**Data Table:**

|  |
| --- |
|  |

**Graph:**

|  |
| --- |
|  |

**Analysis:** Analyze your results.

|  |
| --- |
|  |

**Conclusion:** Make final conclusions about the results of your experiment. Be sure that you conclusion/s relate to the hypothesis!

|  |
| --- |
|  |