**Static Lab**

EVERYTHING I ALREADY KNOW ABOUT STATIC ELECTRICITY THAT MIGHT HELP IN THIS LAB

PART 1 - INTRODUCTION

**Question (what is it you want to find out):** I want to find out what conditions make the best static reaction to show that static electricity exists.

**Hypothesis (what do you think might work the best):**

**Materials (what are you going to use in your experiment to find an answer to your question):**

**Variables (what single variables are you going to change in your experiment):**

PART 2 – EXPERIMENT

**Procedure #1 (exactly what are you going to do):**

**Hypothesis #1 (what do you think will happen when you do you procedure):**

**Observations #1 (what do you think happened and why do you think that happened):**

**Variable #1 (what single thing will you change for the next procedure):**

**Procedure #2 (exactly what are you going to do):**

**Hypothesis #2 (what do you think will happen when you do you procedure):**

**Observations #2 (what do you think happened and why do you think that happened):**

**Variable #2 (what single thing will you change for the next procedure):**

**Procedure #3 (exactly what are you going to do):**

**Hypothesis #3 (what do you think will happen when you do you procedure):**

**Observations #3 (what do you think happened and why do you think that happened):**

PART 3 – REFLECTIONS

**Final observations (now that you have completed this experiment, what have you learned):**

**Future reflections (if you were to try to answer this question again in a future lab what do you think you would try and why do you think that might be an improvement on the results you got today):**

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| **Static Lab - Rubric** | | | | |
|  | **1** | **2** | **3** | **4** |
| **Knowledge and understanding of Static Electricity** | The lab shows little evidence that the student understands the fundamentals of static electricity. Lack of detail, research or basic understanding may be a factor |  |  | The lab shows a great understanding of all aspects of static electricity ranging from basic understanding of electrons to how they move between objects and create charges |
| **Scientific Inquiry into how static electricity works** | The lab shows little evidence of proper scientific method and inquiry. Steps taken may not represent direct connections to the question posed in the lab and steps are not clearly identified or justified to find an answer to the inquiry. |  |  | The lab shows great scientific inquiry. The student shares clear evidence of understanding how a question is answered through scientific methods such as controlled experiments with changing single variables. Each stage represents inquiry from previous results. |
| **Design process and problem solving** | The lab shares little evidence of understanding proper design for finding an answer to the problem. This may be due to inconsistent steps or a lack of logical changes between experiments. It is unclear if the student is controlling variables to find a clear answer. |  |  | The lab process is clearly followed with accurate reflections shared. Each step is a clear response to results showing a strong sense of controlled variables and focused design. Each step is designed to further the understanding of a specific outcome. |
| **Total** | | | | **/12** |

**\*Remember: you are to complete the rubric before submitting your work on Edsby. Use the images below to drag onto the rubric.**