**LAB PRACTICUM ANSWER KEY FOR TEACHERS**



**SAFETY:**



**STEP 1 – PROBLEM**

**WHAT IS THE EFFECT OF TOILET PAPER BRAND ON ITS ABILITY TO HOLD WEIGHT WHILE WET?**

Independent Variable BRAND OF TOILET PAPER

Dependent Variable NUMBER OF PENNIES HELD BEFORE BREAKING

**STEP 2 – OBSERVATION AND RESEARCH**

Define **mass** – amount of matter in an object

**STEP 3 – HYPOTHESIS**

**If \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is dampened, then it will hold the most ( (brand)**

**pennies before breaking.**

**STEP 4 - EXPERIMENT**

**MATERIALS:**  pennies several science books to use as towers

Water droppers 3 brands of toilet paper

**PROCEDURE:**

**(These are not set in stone. They are a guide for you and your class to use)**

1. Tear off 4 sheets of toilet paper from one brand (make sure they are in a strip)

2. Stack the textbooks into 2 piles to use as a support system for the toilet paper

3. Place the strip of toilet paper between the book towers and place a book on top on each side to anchor the toilet paper

4. Put 4 drops of water on the middle piece of the toilet paper strip

5. One by one place pennies on the damp part of the toilet paper until they break through. Record this number in the table.

6. Repeat steps 1-5 two more times with the same brand of toilet paper.

7. Repeat steps 1-6 with the other 2 brands of toilet paper

(Examples)

**CONSTANTS – 1. Length of toilet paper 2. Number of drops of water**

**2. type of liquid dropped 4. Coin used for weight purposes**

**RESULTS:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Number of pennies held | | | |
|  |  | Trial 1 | Trial 2 | Trial 3 | Average |
| Toilet paper brand | Brand 1 |  |  |  |  |
| Brand 2 |  |  |  |  |
| Brand 3 |  |  |  |  |







Brand of Toilet Paper

Conclusion: Based on your findings, would you say that the more expensive brand of toilet paper is worth the money? Why or why not?

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