

# The Effect of the \_\_\_\_\_ on the Number of Swings of a Pendulum

**Question:** How does changing the \_\_\_\_\_ affect the number of times a pendulum swings in one minute?

**Hypothesis:** *I think* \_\_\_\_\_

\_\_\_\_\_

**IV:** \_\_\_\_\_ **DV:** \_\_\_\_\_

## **Procedure:**

1) Gather the following materials:

- A ruler
- 2 paper clips
- String
- Protractor
- Weight(s)
- Masking tape
- Twist tie

2) Set up the pendulum assembly as directed (see model on front counter).

1) Start by \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2) Release the pendulum and count the number of times it swings in one minute.

3) Record the results in the data table and repeat 2 more times for a total of 5 trials.

4) Change the \_\_\_\_\_.

5) Repeat steps 4-6.

***Record your results on the data table on the back of this sheet!***

## Data Table

### The Number of Swings in One Minute

<i>Write your Independent Variable here.</i>	<b>Trial #1</b>	<b>Trial #2</b>	<b>Trial #3</b>	<b>Trial #4</b>	<b>Trial #5</b>	<b>AVERAGE</b>

### Observations:

① \_\_\_\_\_

\_\_\_\_\_

② \_\_\_\_\_

\_\_\_\_\_

### Constants:

① \_\_\_\_\_

② \_\_\_\_\_

③ \_\_\_\_\_

④ \_\_\_\_\_

⑤ \_\_\_\_\_

⑥ \_\_\_\_\_