

Name: \_\_\_\_\_

**PRE-LAB #2**  
**A MECHANICAL ANALOGY TO**  
**THE MILLIKANOIL DROP EXPERIMENT**

Before starting the laboratory session, be sure read *Investigation #2: A Mechanical Analogy to the Millikan Oil Drop Experiment* and then answer the following questions.

1. What did Robert Millikan measure in his famous oil drop experiment? What was the numerical value of this measurement?
2. In the analogy, what will replace the oil drop and what will you be attempting to measure as the overall objective?
3. Before you can achieve your overall objective, what will you need to measure in **Part I** of this experiment?
4. What are some precautions that you should take in order to achieve the most accurate results?
5. In **Part II** of this investigation, you will follow essentially the same procedure as in Part I except for two key differences. What are these differences?

