



# **COEFFICIENT OF FRICTION**

## **Guide Questions**

### **40% of the Written Report (Group Report) grade**

1. In Part IA and IIA of the experiment, how does the friction force vary with the normal force on the block (i.e. weight of block + load)?
2. What is the slope of  $f_s$  vs.  $N$  graph? What does physical quantity does it represent?
3. What is the slope of the  $f_k$  vs.  $N$  graph? What physical quantity does it represent?
4. Which is greater, the average  $\theta$  in Part IB or in Part IIB? Explain why. What physical quantity does  $\tan\theta$  represent?
5. Based on your data, which is greater, coefficient of static friction or coefficient of kinetic friction? Explain why.