

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

**Physics 200B**  
Prelab exercise 7

**Directions:** Read over Lab 7 and then answer the following questions about the procedures.

1. Does effort necessarily result in work? Suppose two people are in an evenly matched tug of war, neither person able to gain any ground. They are obviously expending *effort* to pull on the rope, but are they doing any *physical work* as defined in class? Explain why or why not.

2. *Prediction:* What is your prediction for Prediction 1-1?

3. What are the two methods you will use to calculate the work done by the lifting force in Activity 2-1?

4. In Activity 2-1, where should the motion detector be placed?

5. In Activity 3, you will be measuring your own kinetic energy as you move. Which would have a greater effect on the kinetic energy-doubling your velocity or doubling your mass? Explain.