Friction Lab

Set-up:

* Teacher will demonstrate use and beginnings of lab using the wireless force meter.
* Each group should have their own force meter
* Make sure to calibrate it at the beginning of each lab day.

Objectives:

* You will create your own way to collect data and answer the questions below. This data will be used to support your position on the questions. Set it up wisely!

Questions to Answer: (No one word or one sentence answers! I need evidence. All answers submitted in math form need to have proven work)

1. How does the surface of the object being measured and the surface that is being moved upon affect both the static and kinetic friction? Given characteristics of the surface of objects can you predict or make assumptions about the force of friction, both kinetic and static, between them. Why (It is not all surface area. If you are unsure of all of the reasons please research)?

2. How does the mass of the object(s) being measured and moved affect the coefficient of static and kinetic friction? DATA

3. How is the amount of work affected by the friction, kinetic and static, between objects?

4. How can you represent your data in free-body diagrams (draw some)?