Report Sheet

FRICTIONAL FORCES

Data:

Total Mass (g)	Normal Force (N)	Static Friction (N)	Kinetic Friction (N)

Include a graph of frictional force as a function of normal force with both data sets on the same graph. Record the slope of each line as the coefficients of friction.

Coefficient of static friction: _____

Coefficient of kinetic friction: _____

Questions:

1) Why must the coefficient of static friction always be greater than or equal to the coefficient of kinetic friction?

2) Why do items begin to slide down an inclined plane as the angle is increased? (A free body diagram may be helpful.)