	Regents Physics Ms. Berke Lab: Investigating Friction	Name/date Lab Partners Period:	
	 Procedure: Using a spring scale pull the block horizontally at constant speed while reading the spring scale. The reading on the spring scale is F_a. 		
	Draw the FBD:		
	Problem 1: How does the weight (F $_{\text{wt}}$) affect the force of friction (F $_{\text{f}}$) and the coefficient of friction (µ) ?		
Mais of Metal Weigh	DATA CALCULATIONS		
	$F_{wt} = F_n$	$F_a = F_f$	$\mu = F_f/F_N$

Problem 2: Does surface material affect the force of friction? Note: place a 1 kg mass on top of the block for each case.

SURFACE (describe the surface)	$F_a = F_f$	
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Problem 3: Does surface area significantly affect the force of friction?

SURFACE AREA	$F_a = F_f$	
	ional earthean (Lift Main	
WHA:= M	$\eta = 0$	

CONCLUSIONS:

1.

2.

3.

SOURCES OF ERROR: