

static friction lab (slip angle)

Name _____

1. Draw a free body diagram of the block on the inclined plane
2. Find the equation for the slip angle
3. Measure the slip angle three times, find mean value, then calculate μ_s
4. Predict the force needed to get the block moving when it is flat on the board. Use μ_s & the weight of the block. (just like in μ_k of the shoe lab)
Confirm your prediction by measuring how much force is required to move the block on the flat board.