

Friction LAB

Part 1

Find μ_s and μ_k of the brick on the plank of wood.

You may use anything you need to get this information (*within reason of course!*)

LAB

Part 2

Your next task is to find the μ of your shoe!

Here is what you may NOT use:

Masses

Spring scale

Balance

What can you use?

Just about anything else you can find on the counter!

Look for μ_s first, then find μ_k

What to hand in:

Each person must hand in a neat and orderly set of calculations for μ_s and μ_k of the brick and μ_s and μ_k of the shoe.

What are some things your group tried to do that were unsuccessful? Why were they unsuccessful?

Hints for part 2

Hint 1: use a ramp

Hint 2: Draw a Free body diagram

Hint 3: Write your equations of the sum of the forces in both the x and y directions. Then do some algebra!