Lab 13: Magnetic Fields and Forces Due to Dr. Pogo on or before morning of May 11, 2026

Name:_____ **Date:** _____

Partner:_____ **Watch Your units!**

Directly measured values:

r = _____ ± _____ mm

R = _____ ± _____ mm

L = _____ ± _____ mm

D = _____ ± _____ mm

y_{eq} = _____ ± _____ mm

y_0 = _____ ± _____ mm

I_{min} = _____ amps when m = _____ mg

I_{max} = _____ amps when m = _____ mg

Computed values:

y_{diff} = _____ ± _____ mm

Δx = _____ ± _____ mm

d = _____ ± _____ mm

$slope$ = (_____ ± _____) × 10 kg/A^2

μ_0 = (_____ ± _____) × 10 N/A^2

$\left(\frac{\mu_0}{\pi \times 10^{-7}}\right)$ = _____ ± _____

(we expect this last number to be around 4.00)