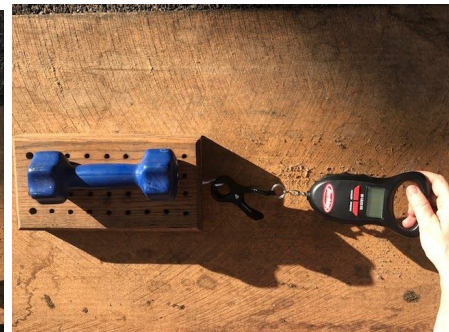
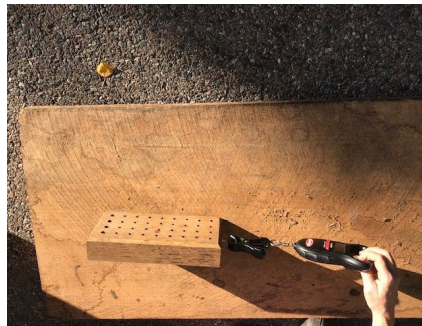


Mass of wood (oak) block + hook = 0.96 kg

Mass of 1 blue dumbbell = 1.82 kg

Raw data for wood (oak) block on rough wood (cherry) surface (F_s = force to start moving, F_k = force needed to keep moving. Expectation is that $F_s > F_k$)

Force (N) \pm .05 N	Trial 1	Trial 2	Trial 3
F_s wide side down	3.43	3.14	3.04
F_s skinny side down	3.43	2.55	3.04
F_s wide side down + 1 dumbbell	7.75	7.95	7.55
F_s wide side down + 2 dumbbells	11.67	12.16	12.56
F_k skinny side down	2.65	2.55	2.45
F_k wide side down	2.55	2.45	2.26
F_k wide side down + 1 dumbbell	6.08	6.18	6.08
F_k wide side down + 2 dumbbells	11.18	10.89	10.69



Raw data for wood (oak) block on asphalt (road) surface (F_s = force to start moving, F_k = force needed to keep moving. Expectation is that $F_s > F_k$)

Force (N) \pm .05 N	Trial 1	Trial 2	Trial 3
F_s wide side down	3.83	4.12	4.02
F_s skinny side down	5.00	4.61	4.71
F_s wide side down + 1 dumbbell	10.89	12.16	11.67
F_s wide side down + 2 dumbbells	21.78	22.27	20.70
F_k skinny side down	3.83	3.43	3.53
F_k wide side down	3.04	3.14	2.75
F_k wide side down + 1 dumbbell	9.52	10.59	10.40
F_k wide side down + 2 dumbbells	17.27	17.95	16.38

