

Oct 15

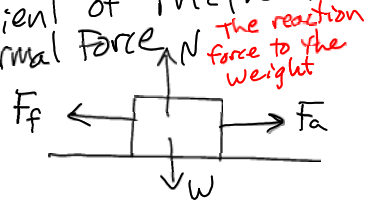
Coefficient of friction
symbol - Greek letter "mu" μ

Approximate Coefficients of Friction

	Kinetic μ_k	Static μ_s
Rubber on concrete (dry)	0.68	0.90
Rubber on concrete (wet)	0.58	
Rubber on asphalt (dry)	0.67	0.55
Rubber on asphalt (wet)	0.53	
Rubber on ice	0.15	
Waxed ski on snow	0.05	0.14
Wood on wood	0.30	0.42
Steel on steel	0.57	0.74
Copper on steel	0.36	0.53
Teflon on Teflon	0.04	

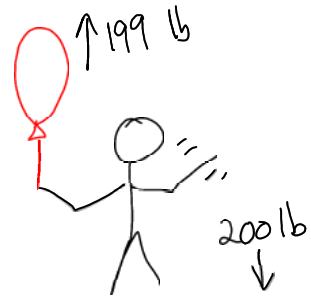
$$f_f = \mu N$$

f_f - Force of friction
 μ - coefficient of friction
 N - The Normal Force



How do I increase Friction?

Texture or roughness	Make surfaces Rougher
Pressure between the surfaces	Increase pressure
Types of material that are touching	change to something that has higher coefficient of friction example Rubber on concrete

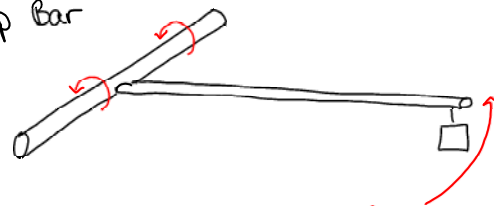


Net Force 1 lb \downarrow
① decrease friction - decrease the Force between the surfaces.

② Decrease the Roughness
Make it smoother

③ change the materials
that are Touching

Grip Bar



1st try skin on wood

2nd Try ~~skin on lotion on wood~~

We changed the materials