

Friction Equation: $F_f = \mu F_n$

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Force and Motion Vocabulary

Term	Symbol in Equations	Definition	Unit of Measurement	Unit Symbol
kinetic friction	$F_k (F_f)$	Friction that makes it difficult to keep an object moving	Newtons	N
static friction	$F_s (F_f)$	Friction that prevents an object from starting to move	Newtons	N
normal force	F_n	The perpendicular force due to a surface	Newtons	N
net force	F_{net}	How forces are unbalanced	Newtons	N
weight or force of gravity	F_g	gravity pulling on an object's mass	Newtons	N
mass	m	matter in an object	Kilograms	kg
inertia				
acceleration due to gravity	g	on earth 9.8 m/s^2	Meters per second ²	m/s^2
acceleration	a	caused by unbalanced forces	Meters per second ²	m/s^2
final velocity	v_f		Meters per second	m/s
initial velocity	v_i		Meters per second	m/s
displacement	Δd		Meters	m
average velocity				
time	t		Seconds	s

Coefficient of Friction

μ (no units)

describes the types of surfaces in contact
Table Fg 109