Name:	_		
Date:	_		
Period:			
Friction			
Definition:	Sliding Friction:		
	Example:		
The strength of the force of Friction depends on 2 factors:	Rolling Friction:		
1.			
	Example:		
2.			
Gravity			
Newton's Law of	Definition:	Air Resistance:	
Universal Gravitation			
		Air resistance: Surface Area	

Formula from Book:

Gravity & Distance

Air Resistance: Velocity

Weight vs. Mass

Newton's Formula for Gravity

Gravity & mass

Friction			
Definition:	Sliding Friction: friction between 2 solid surfaces		
A force which acts opposite the direction of an object's motion			
,	Example:		
	A book sliding across a table		
	A person walking on a sidewalk		
The strength of the force of Friction depends on 2 factors: 1. type of surfaces: rough surfaces	Rolling Friction: friction between a solid surface and a rolling object		
create greater friction than smooth	Evenue		
surfaces	Example: Tires on a road		
2.How hard the surfaces push together- example rubbing hands	Ball bearings in a axle		
Gravity			
Newton's Law of	Definition: the force which pulls	Air Resistance:	
Universal Gravitation The force of gravity acts	objects to the earth	Fluid friction caused when an object moves through the air. Acts opposite motion	
		motion	
between all objects in the universe.		Air resistance: Surface Area	
		Greater area = more air	
		resistancefalling objects eventually	
		reach terminal velocity when air	
		resistance = gravity	
Newton's Formula for Gravity:	Formula from Book:	Air Resistance: Velocity	
$Fg = m_1 m_2 / d^2$	Force of gravity = mass x acceleration due to gravity A gravity = 9.8m/s ²	Air resistance increases with velocity	
Gravity & mass	Gravity & Distance	Weight vs. Mass	
Directly proportional	Inversely proportional to the square of the distance	Weight is an object's mass exposed to the force of gravity	