Friction Notes

What is Friction?				
	is the force that	·	the	
between two		_ that	Put anoth	er
way, it is resistan together.	ice to movement t	hat is caused	l by two surfaces sticki	ng
The	of any object is			
Even an object th		is cov	ered with tiny	
The	between the	e hills of valle	eys of two surfaces cau	uses
them to	, resu	lting in friction	on.	
What Causes Friction	on?			
The	de	epends on:		
<u>-</u>	of th	e surfaces -	The texture of a surfac	e may
be				
	_pushing the surfa	_	r- Gravity is pulling	
Types of Friction				
	friction occurs v	vhen force _		to an
object is		t	o cause the object to	
Kinetic Friction:				
Sliding Friction: res	istance of an objec	ct being		
Rolling Friction: re	sistance of			

Fluid Friction: opposes the motion of objects
Factors Affecting Friction
Friction increases as surfaces are made
Friction increases when the between two objects is
-This can be the of an object, or an force.
To the amount of friction, apply a between two surfaces.
examples,, andare
Friction can also be reduced by, rather than, an object.
When you to move an object, much of your is pushing two <i>surfaces</i> along one another, but that energy
Thestates
that it can't be created or destroyed. Friction converts useful, or heat.
Quick Review:
1. The weight of an 100 N object is holding it still. How much force would you have to exert on it to overcome its static friction?

2.	Which creates less friction: rolling a large bolder, or pushing it?
3.	Which will cause more friction: dress shoes or tennis shoes?
4.	Explain why your hands get hot when you rub them together.
 5.	Tile saws pump a jet of water over the blade while it is in motion. Why do you think that they were designed this way.