

## Friction Key Concepts

Objective -

Friction -

- “Starting” Friction -
- “Sliding” Friction -
- “Static” Friction -
- Measure Force Units -
- Tool -

In any machine,

Decreasing friction =

FACTORS THAT AFFECT FRICTION

3 factors that affect friction-

1 -

2 -

3 -

## Friction: Processing

1. Record the amount of friction generated when the brick is pulled across the smooth surface.
2. Take 3 trials and find the average.
3. Record the amount of friction generated when the brick is pulled across the rough surface.
4. Take 3 trials and find the average.
5. Record the amount of friction generated pulling two bricks across a smooth surface.

<b>Smooth Surface</b>		
<i>Trial</i>	<i>Starting Friction</i>	<i>Sliding Friction</i>
1		
2		
3		
Ave		

<b>Rough Surface</b>		
<i>Trial</i>	<i>Starting Friction</i>	<i>Sliding Friction</i>
1		
2		
3		
Ave		

1. What was the average sliding force of two bricks? \_\_\_\_\_ N
2. Why is the starting friction greater than the sliding friction?
3. What are three ways that friction can be reduced between two surfaces?