

LAST _____

FIRST _____

Date _____

Per _____

SETTLE #2

Notes: Forces (Ch 5-2, 5-3)

5

4

3

2

1

0

Question	Answer	
1. What is a force?		
2. 7 forces are... <ul style="list-style-type: none"> • DRAW PICTURES • EXPLAIN • DO AN DEMOS IN CLASS 	ELECTRICAL	MAGNETIC
	NUCLEAR	WEIGHT(GRAVITATIONAL)
	TENSIONAL	ELASTIC
	FRICTION	

What is friction? (use text book)

Describe the 4 types of friction. (include labeled and **colored** pictures with an **explanation**)

Sliding

Labeled Picture

Explanation

Additional Example

Static

Labeled Picture

Explanation

Additional Example

Rolling

Labeled Picture

Explanation

Additional Example

Fluid

Labeled Picture





Explanation

Additional Example

<p>3. Describe balanced forces and their affect on an object.</p>	<table border="1"> <thead> <tr> <th data-bbox="358 132 634 247">General info</th> <th data-bbox="634 132 1036 247">DIAGRAM Already stopped</th> <th data-bbox="1036 132 1446 247">DIAGRAM Already moving</th> </tr> </thead> <tbody> <tr> <td data-bbox="358 247 634 909"></td> <td data-bbox="634 247 1036 909"></td> <td data-bbox="1036 247 1446 909"></td> </tr> </tbody> </table>			General info	DIAGRAM Already stopped	DIAGRAM Already moving			
General info	DIAGRAM Already stopped	DIAGRAM Already moving							
<p>4. Describe unbalanced forces and their affect on an object.</p>	<table border="1"> <thead> <tr> <th data-bbox="358 909 634 1024">General info</th> <th data-bbox="634 909 1036 1024">DIAGRAM Car Moving and STEP on the GAS</th> <th data-bbox="1036 909 1446 1024">DIAGRAM Car SLAMS on the BRAKES</th> </tr> </thead> <tbody> <tr> <td data-bbox="358 1024 634 1717"></td> <td data-bbox="634 1024 1036 1717"></td> <td data-bbox="1036 1024 1446 1717"></td> </tr> </tbody> </table>			General info	DIAGRAM Car Moving and STEP on the GAS	DIAGRAM Car SLAMS on the BRAKES			
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<p>5. What is meant by net force?</p>									

PRACTICE with BALANCED / UNBALANCE FORCES

Diagram what happens in a car when going from 0mph to a constant 60 mph on the freeway using Force Arrows (vectors)

At Rest (0 mph)	Step on the gas (accelerating in the early stage)	Still accelerating (going 50mph)	Going a Constant 60 mph
			

SUMMARIZE WHAT YOU KNOW

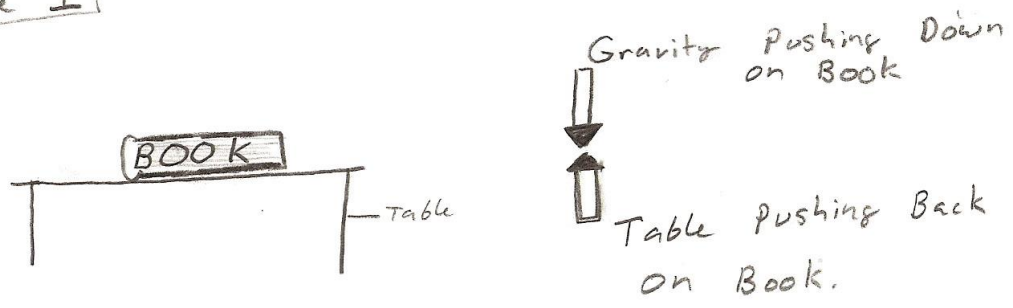
Write 3-4 sentences summarizing today's notes. Include each of the focus words. Underline each word when used in your paragraph.

Focus Words:					
Force	Unbalanced Forces	Balanced Forces	Friction	Gravity	Terminal Velocity

Practice Examples

Balanced Forces

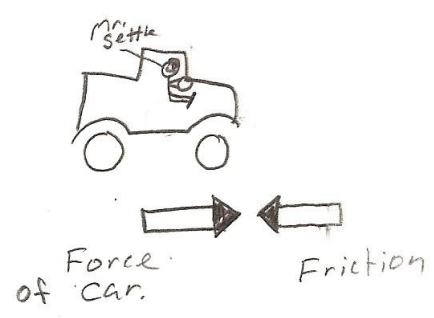
Example 1



- The two forces are balanced
- No change in motion
- The Book continues to stay motionless.

Example 2

German Autobahn going 120mph

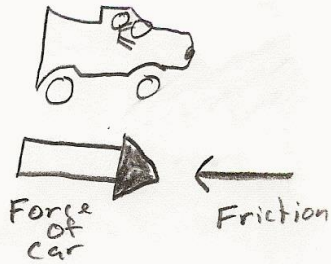


- The Force of the car & The friction are balanced
- The car continues to move at a constant speed of 120mph.

Unbalanced forces

Example 1

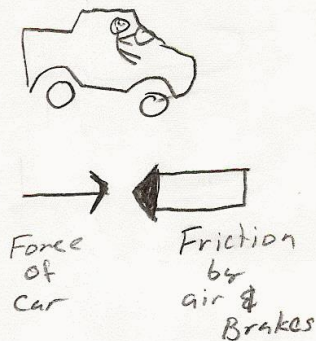
• The car gas was just pushed to the floor.



- Force of car is greater than the friction
- The cars motion changes.
- The cars accelerates

Example 2

• The driver just slammed on the brakes



- Force of Friction by the air & Brakes is greater than the force of the car.
- The cars motion changes
- The car decelerates or slows down.

