Chapter 14 – Forces

Section 14.1 – Newton's First & Third Laws

<u>Vocabulary</u>	<u>Definition</u>
1. Force	1.
2. Newton's 1 st Law	2.
3. Inertia	3.
4. Unbalanced Forces	4.
5. Newton's 3 rd Law	5.
6. Acceleration	6.
7. Newton's 2 nd Law	7.
8. Newton's Law of Universal Gravitation	8.

1				
1.	Which has more inertia – a shopping cart full o	f groceries or an empty shopping cart? Why? (289)		
(Illustrate	/Sketch/Color the picture in the middle of page 294)			
,	, ,			
	/Sketch/Color Figure 14.12 page 298)	(Illustrate/Sketch/Color Figure 14.13 page 299)		
Calculatin	ng Acceleration	Force, Mass, and Acceleration		
۸ م د جا د	vation -	Newton's Cooped Law -		
Accelei	ration =	Newton's Second Law =		
Answer the following questions in complete sentences.				
AII3WEI I	and ronowing questions in complete sentences.			
1.	In Physics, 'hit the ball" means that a golf club does what?	(288)		
2.	Motion can change only through the action of a	(288)		
3.	How are forces created? (288)			
J.				
4	4. Assume you are on a level golf course with no friction. How far will a hit ball travel? How can you stop it? (289)			
4.	. Assume you are on a level goil course with no miction. How far will a filt ball travers. How call you stop its (289)			

5		Newton's first law is sometimes called	ed the Law of (289)		
6	i.	What does "net force" mean? (290)			
7		Forces always come in	(291)		
8	3. Two football players who have different weights collide on a field, resulting in a change of motion. Are their changes in motion the same or different? Why is this? (294)				
9	9. What is the difference between positive and negative acceleration? (298)				
10. What is weight dependent upon? (301)					
(Fill in the table below to match Figure 14.14 page 300)					
		Use	if you want to find	and you know	

Earn 5 points EXTRA CREDIT - Page 307 #1-10

(Write out each of the questions on a separate sheet of paper and answer them correctly)

