Name			Hour		
	points, DUE		Book Assignment following questions.		
	TION 4-1: FORCE AND MO What is a force? Give tw				
2.	What unit is force measur	ed in?	abbreviation for unit: _		
3.	Force is a vector. What is	a vector again?	(Not from book)		
4.	Newtons at 30° N of E. Fin	nd the two comp	you push your little sister with a foonents of that vector. In other w 3 N and 10N) (Not from book)		
5.	What is a free-body diag	r am ? (p. 92)			
6.	Draw the free body diagram for gravity, and one for you		d holding an apple. There should b. 92 for help)	d be 2 arrows, one	
7.	What is another term for t	he sum of all forc	ces?		
	wton's 2 nd Law (p. 95-96): What is Newton's 2 nd Law measure in.	? Write it solved	for F. List what each variable is o	and what unit it is	
9.	What other unit is a Newt	on equal to? (Las	st paragraph p. 95)		
	Newton's 2 nd Law (F = m x Find a car's acceleration (ans. 2 m/s²)		ollowing problems. If 1,000 kg and has a force of 2,00	00 N acting on it.	
11.	If you increase the force	applied, what sh	ould happen to the acceleratior	า?	
12.	If you increase the mass of	of the object, who	at should happen to the acceler	ration?	
	wton's 1st Law (p. 98): What does Newton's 1st L	aw state?			

Nar	ne Hour	
	Newton's 1 st law is also known as the law of Define inertia .	
16.	What is equilibrium ?	
17.	What are the 2 times an object can be in equilibrium? (See picture at top of page)	
	ght and Drag Force (p. 100): Define weight:	
20.	What unit is weight measured in? What is the equation we use to find weight? Calculate the force you exert on the earth, (your weight in N) if you have a mass of 60 k (The acceleration here is the acceleration due to gravity. The earth pulls down giving you weight) (ans588 N)	
22.	What is the difference between mass and weight? Would your weight change on the moon? Mass? (Not stated in book: Apply what you know about weight and mass)	
23.	What is drag force?	
	Drag force would be an example ofwhich is the force that opposes motion. What is terminal velocity ?	
26.	Should lighter or heavier objects reach terminal velocity faster? Why?	
	rton's 3 rd Law (p. 106): What is an interaction pair? What is another name for it?	
28.	What is Newton's 3 rd Law? Use the last paragraph on p. 106.	
29.	You hit the head of a nail with a hammer. (Not in book) a. Does the nail or hammer experience greater force or is it the same? Explain.	

b. Which would experience the greater acceleration? Explain.