Name: Date:		Teacher: Period:					
	NEWTON'S LAWS WORKSHEET						
I. NEW	TON'S FIRST LAW OF MOTION						
	Newton's first law of motion is also known as the LAW OF Newton's first law says that						
	a. an object that IS NOT MOVING, or is at w	vill stay at					
	<u>AND</u>						
	b. an object that IS MOVING will keep moving with constant	which means					
	at the same and in the same	UNLESS					
	c. an force acts on that object.						
3.	What is inertia?						
4.	What property of an object determines how much inertia it has?						
5.	Which of the following has more inertia?						
	a. Bowling ball or Tennis ball						
	b. Hammer or Feather						
6.	When traveling in a car and turning to the right, which way does your body go	and why?					
II. NEW	VTON'S SECOND LAW OF MOTION						
7.	Newton's second law of motion is also known as the LAW OF						
8.	Newton's second law says that when an force	e is applied to a					
	, it causes it to	<u></u>					
9.	The greater the force that is applied, the the	acceleration.					
10.	. The lesser the force that is applied, the the a	cceleration.					

11. If the same force is applied to an object with a large mass, it will have a

12. If the same force is applied to an object with a small mass, it will have a

acceleration.

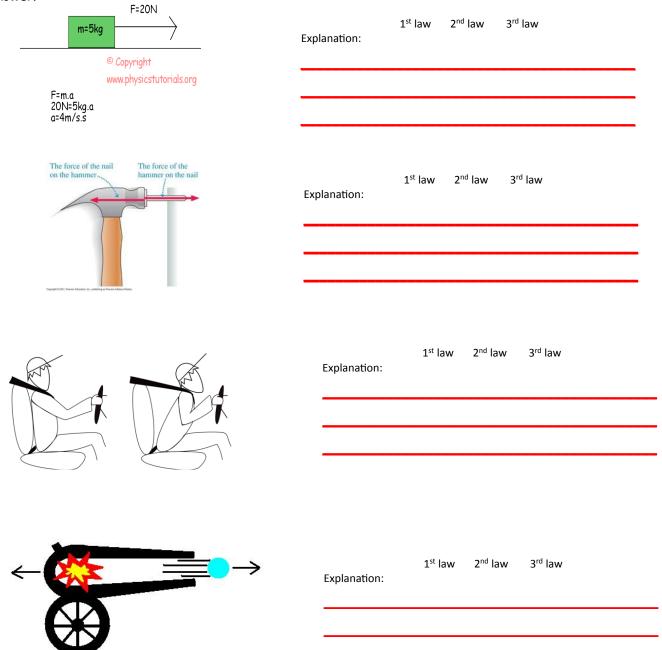
acceleration.

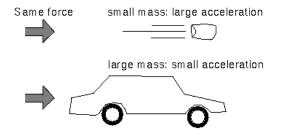
13.	The eq	uation that is used to solve second law proble	ems is <b>F = ma</b> .	
	a.	What does each of the variables mean?		
		F = m =	a =	
	b.	What <b>unit</b> of measurement must be used wi	th each variable?	
		F = m =	a =	
III. NEW	/TON'S	THIRD LAW OF MOTION		
14.	Newto	n's third law of motion is also known as the LA	\W OF	
15.	Newto	n's third law says that every time there is an $ullet$	force, there is also	a
		force that is	in size and acts in the	
		direction.		
16.	Newto	n's third law states that forces must ALWAYS o	occur in	
17.	Listed	pelow are ACTION forces. <b>Tell the REACTION f</b>	orce.	
		Your bottom pushing on your desk seat:		
	b.	A bat hitting a baseball:		
	C.	Your finger pressing on your phone screen w	hile texting:	
18.	What	s friction?		
19.	List the	four types of friction and their definitions.		
	a)	friction:		
	b)	friction:		
	c)	nriction:		
	d)	friction:		
20.	Friction	n that occurs in gases and liquids is called	friction.	
21.	True o	False: Static friction prevents you from slippi	ng when you walk on a sidewalk.	
22	True o	· False: Sliding friction is stronger than static fi	riction	
		-		
23.	You us	e friction who	en you leave marks on paper with a pencil "lead."	
24.	The we	eakest type of friction that occurs between so	lid surfaces is fric	tion.
25.	Factors	that affect the amount of friction against an	object are and	

26.		you put on the brakes your bike to a stop. W	•		·	g. Friction bet	tween the whe	els and the road
	a) b)	fluid friction static friction	c) d)		ng friction ng friction			
27.	The fa	octors that affect gra	vitational pull	on an o	object are			and
28.	Define	e mass:						
29.	Define	e weight:						
30.	What	is acceleration due	to gravity cons	tant? I	nclude units.	(numeric va	alue)	
31.	-	nat would you obser ent if you did the san					-	
32.		or False: Your mass v nplete sentences.	would be the s	ame oi	n the Moon a	s it is on the	Earth. Expla	in your answer
33.		or False: Your weigh er in complete sente		: same	on the Moon	as it is on tl	ne Earth. Exp	lain your
34.	What increa	happens to the gravises?	ritational pull b	etwee	n two bodies	when the d	istance betwe	een them

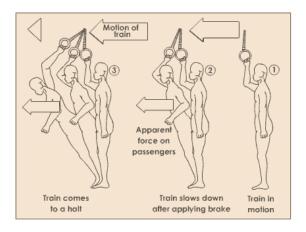
## IV. UNDERSTANDING.....

Label each of the following images/descriptions below as being examples of  $1^{st}$ ,  $2^{nd}$ , or  $3^{rd}$  law. Then EXPLAIN your answer!





Force = mass x acceleration



Explanation:	1 <sup>st</sup> law	2 <sup>nd</sup> law	3 <sup>rd</sup> law	
ехріанаціон.				
	1st law	2 <sup>nd</sup> law	3 <sup>rd</sup> law	
	T. law	Z ldW	3 law	
Explanation:				