		Hour
tons	FORCE NOTES	
Force-		
unit for force:	$()_{-}$ the force i	peeded to
		leeded 10
<u>net force</u> =	force acting on object	ct
	: Force that oppos	es motion
Forces are vector vector- any o	ors! quantity that has	and
, Even we eter ba		
	x z components: an x compone	en and a y component. Force is a vecto
F = 20 N	Ωο	
· ·		
Equilibrium-		Total/Net force =
2 case	es 1 object is at rest	
	object is moving at a cons	tant speed
*Terminal Veloci	ity:	
*Terminal Veloci	ity:	
*Terminal Veloci <u>Newton's Laws c</u> Newton's 1st L	ity: <u>of Motion:</u> . aw * - An object at rest remain:	s at rest and an object in motion continue
*Terminal Veloci <u>Newton's Laws c</u> Newton's 1 st L in motion unless	ity:	s at rest and an object in motion continue
*Terminal Veloci <u>Newton's Laws c</u> Newton's 1 st L in motion unless *This is also know	ity: of Motion: .aw* - An object at rest remains acted upon by an outside ford yn as Law of	s at rest and an object in motion continue
*Terminal Veloci <u>Newton's Laws c</u> Newton's 1 st L in motion unless *This is also know	ity: of Motion: .aw* - An object at rest remains acted upon by an outside forc vn as Law of	s at rest and an object in motion continue
*Terminal Veloci <u>Newton's Laws c</u> Newton's 1 st L in motion unless *This is also know Examples:	ity: of Motion: .aw* - An object at rest remain: acted upon by an outside forc vn as Law of	s at rest and an object in motion continue
*Terminal Veloci <u>Newton's Laws c</u> <u>Newton's 1st L</u> in motion unless *This is also know Examples : Egg Spin	ity: <u>of Motion:</u> . aw * - An object at rest remain: acted upon by an outside ford vn as Law of Ball and card demo	s at rest and an object in motion continue ce Seatbelt Tablecloth
*Terminal Veloci <u>Newton's Laws o</u> <u>Newton's 1st L</u> in motion unless *This is also know Examples : Egg Spin	ity: <u>of Motion:</u> . aw * - An object at rest remain: acted upon by an outside ford vn as Law of Ball and card demo	s at rest and an object in motion continue ce Seatbelt Tablecloth
 *Terminal Veloci <u>Newton's Laws of</u> Newton's 1st L in motion unless *This is also know Examples: Egg Spin Newton's 2nd Law 	ity: of Motion: .aw* - An object at rest remains acted upon by an outside ford vn as Law of Ball and card demo	s at rest and an object in motion continue ce Seatbelt Tablecloth
*Terminal Veloci <u>Newton's Laws o</u> <u>Newton's 1st L</u> in motion unless *This is also know Examples : Egg Spin Newton's 2 nd Law	ity: of Motion: .aw* - An object at rest remains acted upon by an outside ford vn as Law of Ball and card demo	s at rest and an object in motion continue ce Seatbelt Tablecloth
*Terminal Veloci <u>Newton's Laws o</u> <u>Newton's 1st L</u> in motion unless *This is also know Examples : Egg Spin Newton's 2 nd Law	ity: of Motion: .aw* - An object at rest remains acted upon by an outside ford vn as Law of Ball and card demo	s at rest and an object in motion continue ce Seatbelt Tablecloth 1 N =
*Terminal Veloci <u>Newton's Laws of</u> Newton's 1 st L in motion unless *This is also know Examples: Egg Spin Newton's 2 nd Law Mass an	ity: <u>of Motion:</u> .aw* - An object at rest remains acted upon by an outside ford wn as Law of Ball and card demo <i>M</i> -	s at rest and an object in motion continue ce Seatbelt Tablecloth 1 N =
*Terminal Veloci <u>Newton's Laws of</u> <u>Newton's 1st L</u> <i>in motion unless</i> *This is also know Examples: Egg Spin Newton's 2 nd Law Mass an	ity:	s at rest and an object in motion continue ce Seatbelt Tablecloth 1 N =
*Terminal Veloci <u>Newton's Laws of</u> <u>Newton's 1st L</u> <i>in motion unless</i> *This is also know Examples: Egg Spin Newton's 2 nd Law Mass an <u>Mass</u>	ity:	s at rest and an object in motion continue ce Seatbelt Tablecloth 1 N = ng! on the mass in
*Terminal Veloci <u>Newton's Laws of</u> <u>Newton's 1st Laws</u> in motion unless *This is also know Examples: Egg Spin Newton's 2 nd Law Mass an <u>Mass</u> Eorce and mass	ity:	s at rest and an object in motion continue ce Seatbelt Tablecloth 1 N = ng!
Terminal Veloci Newton's Laws of Newton's 1 st L n motion unless This is also know Examples: Egg Spin Newton's 2 nd Law Mass an Mass an	ity:	s at rest and an object in motion continue ce Seatbelt Tablecloth 1 N = ng!
*Terminal Veloci Newton's Laws of Newton's 1 st L n motion unless *This is also know Examples: Egg Spin Newton's 2 nd Law Mass an <u>Mass</u> -orce and mass -orce and mass -orce and accel	ity:	s at rest and an object in motion continue ce Seatbelt Tablecloth 1 N = ng! on the mass in related. related. related. related.

Ex. 1 Calculate the **mass** in kilograms of a 150 lb person. (1 kg = 2.2 lb)

Ex. 2: Find the **weight** of a 150 lb person in Newtons. F = ma, or $F_g = mg$ or w = mg



Newton's 3rd Law- For every action there is an equal and opposite reaction Action/reaction pair:



Bucket Day Questions for Chapter 4



2

