1. Weight D A. The units of weight and force.	Which of Newton's Three Laws Applies: Law 1, 2, or 3?
2. Mass E B. Newton's Second Law mathematically.	Pushing a cart down the hall, when you try to turn it it tries
3. N A C. The acceleration due to gravity = -9.8m/s ² .	to go straight.
 4. F = ma B D. The force of gravity on matter. 5. g C E. How much matter an object contains. 	2 More acceleration takes more force.
Will an object accelerate faster or slower?	When you push your knuckles into a table, it hurts your knuckles.
If its mass is increased? Slower Slower If the force pulling on it decreases?	3 A ball thrown into the ground bounces back up.
If the force pushing on it increases? +65T	A 6 kg object experiences a 5 m/s ² acceleration? Find the force that
If its mass is decreased? Faster	caused this acceleration. France
Why is $F = ma$ not entirely correct?	on Smlsz 6kg. Smlsz = 30N
Γ,	- 0
fret=m.a	A 3 kg rock accelerates to the left at 12 m/s ² . Find the net force that caused this. $F = \gamma \gamma \gamma \alpha$
More, less, or the same as on the Earth?	M 349 12 201
When an astronaut lands on the moon:	a levillo
The astronaut's mass is:	A 12 kg box is pushed to the left by a 48 N force. Find its acceleration. F= MA A S M
The astronaut's weight is: USS	101-
The astronaut's inertia is:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Without air friction, which falls faster, heavy or light objects? Why?	F48N 12kg = 4m/s
Why? Same Speed due to g	A) Calculate the object's net force.
If there is air friction, which falls faster?	F30 N 25 N
Why? heaver because air fricti	5 kg B) Calculate the object's acceleration.
Slows lighter object More	Frais -50 1 12
	Fam-a -500 = - m/s2
How fast is the acceleration due to gravity? 10M(S2	40 N Calculate the object's acceleration.
If an object falls from rest, how fast will it be going: after 1 second? after 2 seconds? after 6 seconds?	8 kg -> Fret = -10N
10mls 20mls 60mls	M= 8kg
Using the weight equation, calculate the weight of a 45 kg rock?	F=mia-16N 21/2
1 - 30/2	F=mia -16N ====================================
m=4stg 45 45 450 N	Find the force pulling left.
Calculate the mass of a 10 N apple.	1 30N-F
Calculate the mass of a 10 N apple. $g=10 \text{ m/s}^2$ $m = \frac{10 \text{ N}}{2} = \frac{10 \text{ N}}{10 \text{ m/s}^2} = \frac{10 \text{ N}}{2}$	4 kg F= Cm/s² F=ma
What is the mass of a 100 gram apple in kilograms?	$F = \frac{1}{30 \text{N}}$ $\frac{1}{30 \text{N}} = \frac{1}{30 \text{N}} = \frac{1}{3$
0.10 1009 7000	30N-F=6 WIIS -765 - 670
What is the weight of the above apple? FW = WT G M 0. 845, 0 155-10m/5? = 10	12 N pulls to the left and 20 N pulls to the right on a 2 kg object. Draw the problem:
What is the weight of a 250 Nobject?	m zous Fret= 80
What is the weight of a 250 N object? 250.0	Calculate the object's acceleration Fig. 2015 Fig. 20
If 100 kg person weighed 400 N on the planet Zorg, what is the	Chianality in Colors a district discussion.
m looks a: a Fu Clook	a= \frac{F}{m} \frac{80}{2\kappa} = 4m/s^2
for 400N 0 m 100kg	Exs = [Mils
920g=4mb	~