Name		Date Due:	
UNIT 4 Topic 3	STRUCTURES and F		
Mass	fg. 298 -	309	
1. What is mass?	,		
2. Why does an egg sized lump	p of lead have less m	ass than an elephant	?
3. What is the amount of mater			
4. Masses smaller than a kilogr	ram are usually expre	ssed in	
5. "Kilo" means		_ , so kilogram really	means
		_ grams.	্ব
6. What is a "balance" ?			-
7. Why is mass a very useful pr	operty to measure?		
8. What are the two ways in whi	ich mass might chang	je?	ε _{0.0}
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Forces and Weight			
9. Why is the elephant's mass th	ne same on the Moon	as it is on Earth?	
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10. What are forces?	•		
11. What is the standard unit of f	force called?		,
12. About how much force is nee	eded for the following	?	
a) lifting a D- cell	b) lifting a 1L o	carton of milk?	The said of the sa

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Weight 15. Because weight is a force, what is its proper unit of measurement? 16. What is the name of the force that tries to pull two objects together? 17. According to Issac Newton, what does gravitational force depend upon? 18. What is the relationship between gravity and the mass of objects? 19. What do we call gravitational force in everyday language? 20. On Earth, a 1 kilogram mass has a gravitational force of 21. Why is your weight a little less if you are in an airplane or on a high mountain? 22. On the moon your weight is only about one-sixth of your weight on Earth. Why is that? Picturing Forces: 23. What is a force diagram and what does it show? 24. How is the size of a force shown? Review: 25. What is the difference between mass and weight? 26. What are the units of measurement for mass? weight? 27. What instrument is used to measure mass? 28. What type of scale is used to measure weight?

14. What do you need to be able to completely describe a force?