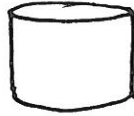


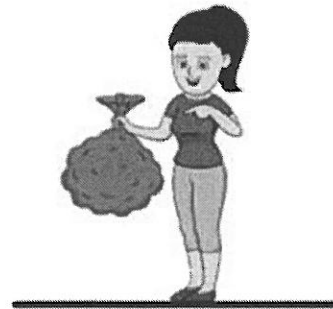
Name _____ Period _____ Date _____

Physical Science Review for Test 1

1. Rank the items from most stable (1) to least stable (5)



2. Draw and label the force pairs in this situation (do not forget gravity...)



3. Describe Center of Mass

4. What is the name of the lead weight used by the Romans that points to the center of the Earth? _____

5. What is a force? _____

6. Which repair people get their name from the ancient Romans, and why?

7. What is meant when someone says that a door is plumb? What about level?

Plumb

Level

8. Describe gravity on the Earth as compared to the moon.

9. What are three types of forces that we discussed that can act at a distance?

a. _____

b. _____

c. _____

10. What is Gravitational Potential Energy?

11. What is Chemical Potential Energy?

12. What is the name of the toy used to demonstrate collisions as it swings back and forth and it has 5 or 7 balls? _____

13. Unbalanced forces always cause a change in _____
14. What is friction and which direction does it act?
18. Newton's First Law of Motion is also called the Law of _____
19. An object will remain in motion in a straight line, or at rest, unless there is an outside _____ acting on it.
20. Mass is a measure of an object's _____ and is measured in _____
21. An object is considered to be stable when its _____ is over its _____ support.
22. What is weight?
23. How much pressure is there normally around us? _____
24. The pressure described in question 23 is called _____ Pressure.
25. Newton's Third Law states:
26. The equation for pressure is $P =$
27. Calculate the area of a circle with a radius of 3 inches. (show work) _____
28. A man weighs 175 lbs and is standing on a large book that is 14 inches tall and 11 inches wide.
What is the pressure under the 15 lb book? _____
29. Potential energy is the energy an object has based on its _____ or _____ . It is also the ability to do _____
30. How is it that you can drink with a straw? Include pressure throughout your answer.
31. In the activity with the syringe and the marshmallow, what did you have to do to get the marshmallow to get larger? _____
What was it about the marshmallow that caused it to get larger?
32. Why did the balloon get larger in the bell jar?
33. List at least four things you have to do to make the tablecloth trick work.