MASS MEASUREMENT Name_____

/46 Hour _____

Mass is a measure of **the amount of matter in the object**. Mass can be thought of as how much "stuff" is there. Technically, mass is different than weight. **Weight** is **how hard gravity is pulling down on your mass**. For example on earth my mass is 150 pounds, but on the moon I would only weigh 25 pounds. When I step on a scale on the moon, I would weight about as much as a three year old. Anyone in this room could easily lift me on the moon because my weight would change. However, when I look into the mirror, my body would look exactly the same. My pants would fit the same; in fact I would still have the same amount of fat as I always have had. I wouldn't become instantly skinny on the moon. ☹ My **MASS** would be exactly the same on the moon or any planet. But how hard the gravity of that planet is pulling me down would be what is different.

INSTRUCTIONS
In this lab, you will be measuring the mass of all the blocks and 5 other items from the room. Use the triple beam balances and the electronic scales to collect the mass data. When you fill in the data chart, **be sure to label** your numbers with mg or g.

1-40.

	OBJECT	MASS in g	MASS in mg
1	Block A		
2	Block B		
3	Block C		
4	Block D		
5	Block E		
6	10 cubes		
7	black stapler		
8	Aluminum cube		
9	Iron cube		
10	1 cube		

41-42. Describe what mass IS in your own words. DO NOT tell me how to measure it… tell me what mass MEANS.

43-44. How is mass different from volume?

45-46. How is mass different from weight?