What a Reaction

Predict what you think will happen when a seltzer tablet and water are combined in a balloon? Do you think the combined mass of the objects will be the same or different? Explain your prediction. Will this experiment support the "Law of Conservation of Matter?"

Collect the items from the table that you will need to perform this experiment: one balloon, string, one seltzer tablet, one vial with lid, a small cup of water, and a balance scale. Return with these items to your group and perform the out-lined activity.

To begin your experiment you will first need to get the weight of the seltzer tablet, balloon, string, water, and vial with lid.

1. Make sure that your balance is working correctly.		Weight
pieces. Place balloon. Plac	ltzer tablet into four small these pieces in your the the balloon on the balance ith your piece of string and eight.	2.
1	al and lid on the balance I their weight.	3.
indicated and the weight of weight of the	with water to the mark weigh it again. Subtract the vial and lid from the vial with water and lid to t of the water. Place this umn four.	Weight of vial, lid and water minus the weight of vial and lid. Place the difference on line four. Lid, vial, and water – vial and lid 4.
the balloon. around the vi string around vial. Watch a	e water from the vial into Hold the balloon tightly al while a partner ties the the balloon. Remove the and feel what happens to the ecord your observations in	

6. Place the balloon on the scale and measure the weight of the balloon.	Place the weight of the balloon on six. 6.			
7. Add the weight of the water to the weight of the balloon, string and seltzer tablet. Record this on line seven	+ = Total of line two + line four 7. Total of line two, and four.			
8. Does your balloon weigh the same as the sum of numbers two and four? Yes or No. Explain your answer in column eight.	8.			
9. What might explain any changes in weight? Record your answer in column nine.	9.			
10. What law was demonstrated with this experiment?	10.			
11. Did you prediction match the outcome of y	our experiment? Explain			
12. What is the "Law of Conservation of Matter" and how did your experiment prove this law.				
13. Reflection, tell about what you did and wh	at you learned from this experiment.			