

Name: \_\_\_\_\_

Date: \_\_\_\_\_



# GENIUSCHALLENGE

## CONSERVATION OF MATTER

1. According to the Law of the Conservation of Matter, if you dissolve 25 grams of sugar into 150 grams of water, the mixture should weigh how much? \_\_\_\_\_
2. Why was the weight of the fire snake slightly less after it was lit on fire?  
\_\_\_\_\_
3. True or false: matter must have weight, but doesn't have to take up space. \_\_\_\_\_
4. Why does the weight of the dry ice go down while it's sitting on the scale?  
\_\_\_\_\_
5. What evidence did the team examine that matter is conserved when dry ice changes into a gas?  
\_\_\_\_\_
6. Where does the wax go as the candle burns?  
\_\_\_\_\_
7. If you could see the weight on the scale before and after Izzy burns the candle do you think it would increase, decrease, or stay the same?  
\_\_\_\_\_
8. True or false: cinnamon rolls grow bigger when baked because they absorb water from the hot air in the oven. \_\_\_\_\_
9. Was Zoe's flash paper trick magic? Why or why not?  
\_\_\_\_\_  
\_\_\_\_\_
10. If you were to weigh a car's sealed air bag before and after it inflates the weight would ...
  - a. increase
  - b. decrease
  - c. go to zero
  - d. stay the same