

## Lesson 12 – Does Mass Change in a Chemical Reaction ?

### Activity 12.A

#### What Will We Do?

We will conduct an experiment to determine whether mass stays the same or changes when we make a substance called gloop.

#### Prediction

Do you think the mass will change when you make gloop? Why?

#### Procedure

1. Measure 6tsp of glue and add to Cup 1.
2. Measure 5mL of water and add to Cup 2.
3. Measure 15mL of the sodium borate solution and add to Cup 3.
4. Use a balance to find the total mass of the three cups, the reactants, and the craft stick. Record the total mass before the reaction.
5. Add the water to Cup 1 with the glue. Stir with the craft stick.
6. Add the sodium borate solution to Cup 1. Stir with a craft stick until it is thick.
7. Use a balance to find the total mass of the cups, the products, and the craft stick. Record the total mass after reaction.
8. Use your fingers and knead the resulting gloop for a minute or two to finish forming the product.

## Data

	Before the Reaction	After the Reaction
Total Mass (grams)		
Observations of Reaction		

## Conclusion

1. Write a scientific explanation that answers the question: Does mass stay the same or change when you make gloop?
  
  
  
  
  
  
  
  
  
  
2. Look at your prediction at the beginning of the sheet. Did your findings for Conclusion Question 1 support your prediction? Why do you think your findings did or did not support your prediction?