

*This is challenging but it can be done.* Diagram (in color) your numbers as they look in Lego form.

- a. How many pieces did you use to form the number 1? \_\_\_\_\_
  - b. How many pieces did you use to form the number 2? \_\_\_\_\_
  - c. How many pieces did you use to form the number 3? \_\_\_\_\_
  - d. What was the total number of pieces that you used? \_\_\_\_\_
4. Rebuild the house, **EXACTLY**, the way it was given to you.

**Conclusion Questions:**

1. What are the constraints for this activity?
2. What are the criteria?
3. If the house represented a polymer, what would be the numbers (1,2,3) that you assembled represent? \_\_\_\_\_
4. What would the individual Legos represent? \_\_\_\_\_
5. What is the Law of Conservation of Mass?
  
6. Write a simple equation that demonstrates the Law of Conservation of Mass.  
(Do not use an equation from your notes.)
  
7. How does this Lego Lab demonstrate the Law of Conservation of Mass? **Explain and give specific examples** from the lab.
  
8. If you were asked to redo this lab using something other than Legos, what could you use to demonstrate the Law of Conservation of Mass? **Explain.**