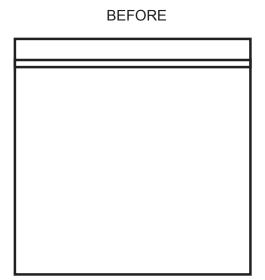
Observation and Reflection

Name: ______ Date: _____

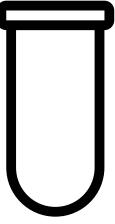
1. In the space below draw what the contents of your baggie looked like before and after you smashed up your item.





2. What do you think the purpose of smashing up the fruit/vegetable was? Do you think this made it easier to extract the DNA? Explain.

3. In the space to the side draw what you observed in your test tube once the alcohol was added.



Observation and Reflection Continued

| 4. | Draw in the space provided what your DNA strand looked like through the hand lens. |
|----|--|
| 5. | Were you successful in extracting the DNA from your item? How do you know? |
| 6. | Compare the DNA strand from your fruit/vegetable to another participant's DNA strand who also used the same item. How does your strand differ or look the same as the other person's strand? |
| 7. | Compare the DNA strand from your fruit/vegetable to another participant's DNA strand who tested a completely different item. Share the similarities and differences between the two DNA strands. |
| 8. | Why do you think some groups extracted more DNA out of their item than others? Explain. |
| | |

Observation and Reflection Continued

| 9. | How would our lives be different without the advances made with microbiology and DNA extraction? |
|-----|--|
| 10. | What general statements could you make about how DNA is extracted from organisms and why DNA extraction is important in the biotechnology field? |
| 11. | How would you explain what DNA is and the importance of DNA to a friend? |
| 12. | How would you explain the reason DNA extraction and testing is done on organisms? |
| NO | TES: |