Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I CAN describe the basic structure of the DNA molecule.

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_P.\_\_\_\_\_\_\_

**DNA EXTRACTION POST LAB**

***Answer the following questions in COMPLETE SENTENCES***

1. What was the purpose of this lab? (Think about what you ended up with—look at the Questions in the Pre-Lab.)

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2. If you wanted to extract DNA from a living person, what cells do you think you could use?

List at least four *things*.

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3. Why didn’t the banana DNA (in this lab) look like the double helix we see in our textbooks? (see the background information)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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4. A person cannot see a single cotton thread a 100 feet away, but if you wound thousands of threads together into a rope, it would be visible at some distance. How is this statement an *analogy* to our DNA Extraction?

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5. List two reasons a scientist would want to study the DNA of a person?

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6. If you extracted your DNA, do you think it would look different than the bananas?\_\_\_

Why?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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7. How many chromosomes do you (and most other humans) have in a cell? \_\_\_\_\_\_\_\_\_\_\_

8. How many of these are from your mother? \_\_\_\_\_\_\_\_\_

9. How different (%) is your DNA from that of any other human? \_\_\_\_\_\_\_\_\_

10. Does a liver cell contain the same chromosomes as a cheek cell? Explain why (or why not).

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