

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## DNA EXTRACTION LAB ACTIVITY

**Procedure Questions: (pre-lab)** complete before beginning lab  
(Use the computers if necessary)

1. Where is DNA found? (be specific)
2. What does the detergent and stirring do in the solution?
3. How often should the solution be mixed once the detergent is added?
4. What must be done with the alcohol?
5. Where should you **first** be able to see DNA in the solution?
6. What can be used to remove the DNA from the solution?
7. How can the DNA be preserved?
8. How is a wet mount slide prepared? (list steps)

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<p>A. Draw a picture of DNA with the left side bases equal to the following genetic code:   AACTTGAGTACC <b>(label all parts correctly)</b></p>	<p>1. List the nitrogen bases found in DNA.</p>  <p>2. What are the base pairing rules?</p>
<p>B. Make a drawing of your Extracted DNA (Visual with naked eye)</p>	<p>Observations of DNA</p> <div style="border: 1px solid black; padding: 5px; margin-top: 20px;"><p>3. Which nitrogen bases are pyrimidines?</p><p>4. Which nitrogen bases are purines?</p></div>
<p>C. Prepare a wet mount/stained slide of a small portion of your extracted DNA. Draw your observations (use medium or high power)</p>          <p>Magnification _____</p>	<p>Observations of DNA</p> <div style="border: 1px solid black; padding: 5px; margin-top: 20px;"><p>5. How many chromosomes do humans have?</p><p>6. How is RNA different then DNA?</p></div>