Name: _____ Group: _____ Date: _____

LAB 37 OBSERVATION

LOCATING DNA

STUDENT BOOK	Chapter 5, page 128
TOOLBOX	Pages 23, 25

Goal

Determine the location of DNA in a cell.

Observation criteria

1. What structures of a cell can be observed under a light microscope?

_____

2. Methyl-green dye colours DNA green. What structure of a cell would be coloured green by this product?

_____

Materials

- toothpicks
- slide
- dropper bottle of methyl-green dye
- cover slip
- light microscope
- white paper
- pencil
- eraser

Procedure

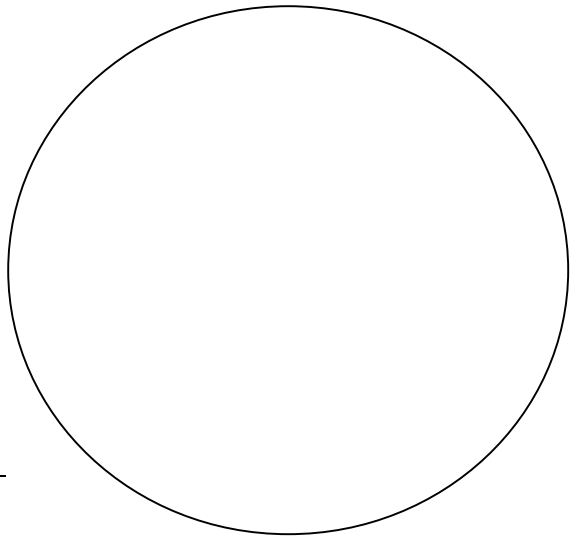
1. Scrape the inside of your cheek with a toothpick to collect a cell sample.
2. Place the sample on the slide.
3. Add a drop of methyl-green dye.
4. Place the cover slip on the slide.
5. Observe the sample under the microscope at a magnification of 400x or 500x.
6. Illustrate one of the cells observed.
7. Clean up and put away materials.

Name: _____ Group: _____ Date: _____

Observations

IIllustrate your observations in the circle below. Identify the cell structures observed and indicate the degree of magnification. Give the circle a title.

Title: _____



Magnification: _____

Reflecting on your observations

1. Identify the cell structures observed under the microscope.

_____

_____

2. Identify a function for each cell structure observed.

Structure	Function

3. Where is DNA located in the structure of a cell? Explain your answer.

_____

_____

4. What is the shape of DNA?

_____

5. Can the shape of DNA be observed under the microscope you used?

_____

6. How could you improve the protocol for this lab?

_____