

Name \_\_\_\_\_

Period \_\_\_\_\_

Regents Biology

Date \_\_\_\_\_

**LAB \_\_\_\_\_. CELL STUDIES**

The Cell Theory states that all living organisms are made of cells. It was only after microscopes were developed and we were able to view the universality of cells that this theory was accepted. Although cells are the building block of all living organisms, different types of organisms have different types of cells. In this lab, you will be examining and comparing plant, animal, and bacterial cells.

**A. ANIMAL CELLS: HUMAN CHEEK CELLS**

1. Place a drop of water on a new, clean slide.
2. Take a toothpick and gently rub it against the inside of your cheek. Do **NOT** use force, you are dislodging loose cells, not gouging a hole in your cheek.
3. Stir the water on your slide with the end of the toothpick that you rubbed in your mouth. This will transfer the cells onto the slide.
4. Place one drop of **methylene blue** stain in the drop of water on your slide. Be careful, methylene blue will stain your hands and clothing.
5. Let this stain stay on the slide for one minute and then place a cover slip on the slide.
6. Observe under low power in the microscope and scan the slide. Once you find a good specimen of single cells then turn to higher power and observe further.
7. Make a nice, clear drawing of the cells in the space below and label any identifiable structures. Be sure to find the **cell membrane**, **cytoplasm**, and **nucleus**. Use a colored pencil to complete your drawing.

|  |                       |
|--|-----------------------|
|  |                       |
|  |                       |
| <b>Size Estimate</b><br>(Remember, the medium power field of view is 1500µm, the high power field of view is 500µm.) | <b>Magnification:</b> |

# Regents Biology Cell Studies Lab Sheet

**Brendan G. Carr**



**Regents Biology Cell Studies Lab Sheet:**

Delve into the emotional tapestry woven by in Experience **Regents Biology Cell Studies Lab Sheet** . This ebook, available for download in a PDF format ( \*), is more than just words on a page; it's a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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