NAME _____
DATE_____CLASS_____

LAB 4: MICROSCOPY OF CELLS AND TISSUES – PART 1

Central Question this lab should answer: _____
_____

Instructions: Follow the directions below and answer the questions.

Methods

A. Field of View

1. Turn on the microscope and center the letter "e" on the stage.

2. Focus on the "e" using the coarse focus on the lowest power objective. Observe the letter "e" through different objectives, starting with the 10x power and then moving to a higher power objective such as 25x and 40x. Use the fine focus to get a sharper image. Move the slide around. Observe the letter "e." Answer the following questions:

   a. What does it look like?

   b. What happens when you move the slide?

   c. How does the image of the "e" change when you switch to a higher power objective?

3. Change the diaphragm to obtain optimum contrast on all the objectives. What happens to the image?

4. Remove the "e" slide from the stage and put the transparent ruler on the stage with the millimeter lines under the objective. Look in the eyepiece.
   a. What is the distance of your field of view? List the distance for all objectives.

   b. Which has the largest field of view? The smallest?

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