**Microscope Lab Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**INSTRUCTIONS: Obtain a microscope from the rolling cabinet, and carefully return it to your work area. Plug it in and make sure it works.**

**Part A: Locate the following parts on your microscope and check the boxes when complete:**

**Eyepiece**

**Body tube**

**Arm**

**Nosepiece**

**Objective lens**

* **What is the magnification of the high power objective lens? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **What is the magnification of the medium power objective lens? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **What is the magnification of the low power objective lens?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Base**

**Stage**

**Stage clips**

**Light source**

**Diaphragm**

* **How many different size openings does the diaphragm allow? \_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **What microscope part that we learned in class is missing from this microscope? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Part B: Magnification**

**Eyepiece Objective Lens Magnification**

1. **10x 10x \_\_\_\_\_\_\_\_\_\_\_\_**
2. **20x 44x \_\_\_\_\_\_\_\_\_\_\_\_**
3. **5x 40x \_\_\_\_\_\_\_\_\_\_\_\_**
4. **25x 30x \_\_\_\_\_\_\_\_\_\_\_\_**
5. **15x 20x \_\_\_\_\_\_\_\_\_\_\_\_**

**Part C: On top of the rolling cabinet are baggies that contain the following samples: newspaper letter, lizard skin, and wasp paper. Using the medium power objective, focus on each of the samples. Make DETAILED drawings of them in the circles below. Draw exactly what you see.**

**Newspaper Letter Lizard Skin**

**Wasp Paper Hair - Split End**

**Find a willing donor of a strand of hair with a split end. Someone with long hair is usually a good choice. Look at that under the microscope and draw it in the 4th circle.**

**CLEAN UP YOUR AREA – Put the cover on the microscope and return it to the rolling cabinet. Put materials back in the baggies and return them to the top of the rolling cabinet.**