Background:

Activity: Intro to Microscopes

Microscopes have been around for a long time. Since the early 1600’s they have been magnifying the various aspects of our world to make them easier to understand. However, microscopes are generally mishandled my science students across the country. Today we are going to ensure that you know how to use a microscope.

Materials:

* Microscope
* Cut out letter
* A blank Slide
* A prepared slide

Procedure:

1. Gather your group members and listen to Mr. Owdij talk about Microscope safety
2. Try to fill out the attached sheet on the parts of a microscope. We will review this in a few minutes.
3. When instructed, gather a microscope from the side of the classroom. This will serve as your microscope for the day. Also gather a letter from the front of the classroom.
4. Place the letter so it is facing you on a slide and place it under the microscope.
5. Listen to Mr. Owdij for how to focus the microscope.
6. Draw a picture of your letter below.

Letter:

1. Now listen to Mr. Owdij for how to switch to your medium power lens and gain a clear image.
2. Now listen to Mr. Owdij for how to switch to your high power lens and gain a clear image. Draw what you see below.

Letter:

1. Now obtain a prepared slide from the front of the classroom. Place this on the stage. Use the techniques you have learned so far to get three clear images of the slide and draw them below.

|  |  |  |
| --- | --- | --- |
| Low (x\_\_\_\_\_\_ Zoom) | Med (x\_\_\_\_\_\_ Zoom) | High (x\_\_\_\_\_\_ Zoom) |
|  |  |  |

Word Bank:

|  |  |  |
| --- | --- | --- |
| Occular | Neck | Revolving Nosepeice |
| Fine Focus | Diaphram | High Power Objective |
| Low Power objective | Light | Course Focus |
| Base | Medium Power Objective | Eye Peice |
| Stage Clips | Stage |  |

