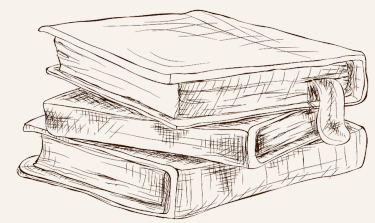
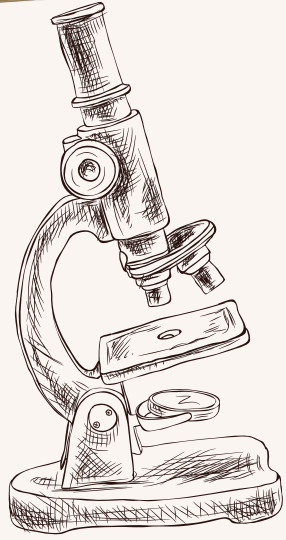


MICRO-DRAWING



Why is it Important to Learn How to Use a Microscope?



In order to understand how things work, we have to understand what the parts are they're made up of. Microscopy, or the use of microscopes, allows us to study things that we normally couldn't see with our eyes.

Using a Microscope

Eyepiece:

Look through here! You may need to adjust the angle of your eye to make sure you're not looking at the inside walls of the body tube, and are instead looking straight through to the other end.

Adjustment knobs:

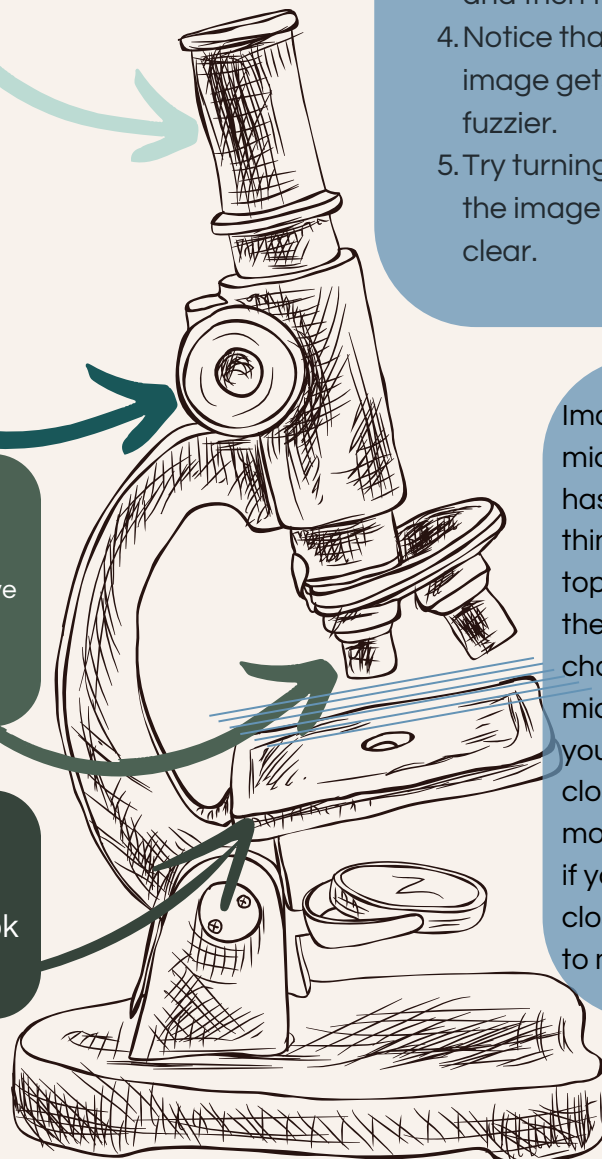
Use these to adjust the focus. While looking through the microscope, experiment with turning the knob one direction and then the other until you can see the image clearly.

Lenses:

The lens is what magnifies whatever you're looking at. Depending on the type of microscope you're using, you may have multiple lenses with different levels of magnification. If you do, you can rotate between them using this disc.

Stage:

This is where you can place whatever it is you want to look at.



Focus

1. Place the thing you want to look at onto the stage. I recommend using a picture to practice.
2. Look through the eyepiece. Adjust the angle of your eye until you can see light and color, even if it's fuzzy.
3. While looking through the eyepiece, turn the adjustment knob one way and then the other.
4. Notice that as you turn the knob, the image gets fuzzier, then clearer, then fuzzier.
5. Try turning the adjustment knob until the image on the stage comes in clear.

Imagine that the air between your microscope's lens and its stage has been sliced into a bunch of thin layers that are all stacked on top of each other. When you turn the adjustment knob, you are changing which layer the microscope is looking clearly at. If you want to focus on something closer to the lens, you will need to move up through the layers, and if you want to look at something closer to the stage you will need to move down.