

Story Lab: Microscopes and the Letter "E"

When I got to class today, I knew we were going to be looking at microscopes because the day before we had learned all the parts of the microscope and how to properly carry one. Our teacher, Mrs. Hooke, wanted to go over the microscope first before we went to the laboratory. In fact, she said we would only start working with the equipment when she was satisfied that we knew all of the parts.

At first, she held up the microscope and pointed to the top. "This is the part where you look, what is it called?"

I raised my hand immediately, that was just too easy. "It's the **eyepiece**!"

"Very good, Penny. Let's see if your lab partner knows where on the microscope you place the slide."

I had to practically sit on my hands as I waited for Poppy to answer. It took her a little while and then finally answered "The stage?" I breathed a sigh of relief. At this rate, we were never going to get into the lab.

Mrs. Hooke went down the rows, asking each student to answer something about the microscope. There was one question that really stumped everyone. She asked what part the objectives attached to. No one could answer that one, not even me. It seemed like it was something that rotated. Mrs. Hooke waited, and I was starting to get nervous that we wouldn't go to the lab at all. Then she touched her finger to her nose and tapped twice. She looked directly at me. Was this some kind of a code? She tapped her nose again and then I finally got it. I blurted out without even raising my hand "revolving nosepiece!" Mrs. Hooke nodded and gave us instructions to head over to lab and find a microscope.

My microscope looked similar to the one Mrs. Hooke showed us. I followed the instructions to plug in the microscope and pick up the letter "e" slide that was sitting in a tray next to the microscope. The directions in the lab handout said to place the letter "e" on the slide so that the "e" was right side up and to make sure the letter was positioned directly over the hole where the light was coming in.

The directions said to use the scanning objective, which is the shortest one and use the coarse knobs to bring the "e" into focus. It worked slowly and could finally see the letter. I was surprised to see that it was upside-down. I looked on the stage and I had put it there pointed the right way, but it seemed like the microscope reversed the image! I was told to draw the "e" exactly as I saw it through the lens, so I made sure to draw it upside-down.

I also noticed that there was a weird line in the lens. I thought the microscope was broken, so I called Mrs. Hooke over to report it. She smiled and told me to twist the eyepiece and watch. When I did that, the line moved in a circle. Then she asked, "what do you think that's there for?" I pondered it, thinking that I had an idea. "Do you use it to point at things on the slide?"



Microscope Letter E Lab Answers

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