



# MEET MEEKA MICROSCOPE

## GATHER SAMPLES TO VIEW UNDER THE MICROSCOPE

### INTRODUCTION

5 min

***"The gifts of microscopes to our understanding of cells and organisms is so profound that one has to ask: What are the gifts of the microscopist? Here is my opinion. The gift of the great microscopist is the ability to think with the eyes and see with the brain." – Daniel Mazia***

Say: "We are excited that we get to meet Meeka microscope today. We will learn how to use a microscope, safety handling tips, and how to focus the microscope. You will also draw a scientific diagram of an interesting sample you collect." Ask them what they think the quote means. Get them excited about making discoveries through their microscopes.

### MOVIE TIME

5 min

Watch the movie to learn how to use Meeka Microscope.



### STEM TIME

60-90 min

#### Materials:

- Tobey tweezers
- Meeka microscopes
- Petri dishes
- Tedros test tube
- Student lab sheets

#### Collect a sample and use Meeka to observe your sample

Say: "Today, we will be going outside to collect the coolest, weirdest, and most interesting thing we can find. Take your time collecting a sample. You can use Tobey tweezers to collect the sample and place it in your Tedros test tube. When we bring our sample back to class, we will learn how to use Meeka microscope.

Note: Encourage students to look for small, irregularly shaped leaves, seeds, or stems. They might have access to pond water, branches, dirt or grass. Let them be creative with their sample!

1. Before administering this lab, spend some time discovering how to use the microscope on your own.

Some helpful points to watch out for are:

- The light must be turned on.
- Students will need help adjusting the width to their eyes.
- Make sure the 2X or 4X 'clicks' into place.
- It may take multiple tries to focus effectively. Use the knobs and go as far as you can go in one direction, then adjust gradually.

2. Show the class movie (Meet Meeka microscope)

3. Take the students outside to explore and collect a sample using the tweezers and test tubes.

4. Have everyone bring the samples inside to examine under the microscope. Be sure to have the students put the samples in the petri dishes.

5. Guide them to make a detailed and accurate drawing of their samples.

