**Using the Digital** 

**Microscope**

**Getting Started**

1. You will be using the program ISCapture. If it is not already running, click on the orange ISCapture icon on your laptop screen.
2. Turn on the green switch on the back of the microscope.
3. Make sure your microscope is on the red 4X objective (if not tell a teacher).
4. Place your slide in the mechanical stage and center the specimen.
5. Use the coarse adjustment to move the stage up until it meets the stop.
6. Use the coarse adjustment to turn the stage down until the image comes in focus.
7. Use the fine adjustment to reach the best focus.
8. On the computer, press the “White Balance” button to automatically adjust color.

**Using the computer**

1. If the image looks good press the “Capture” button. If not use the steps below. Remember if you want to change power to get a better picture, ask a teacher.

**Adjusting Exposure**

1. Turn off Auto Exposure on the left of your computer screen.
2. Use the following to adjust the light – 1. exposure slider on computer 2. wheel on base of the microscope which controls the lamp 3. the diaphragm
3. Turn on the Auto Exposure when moving to a new power or finishing for the day.

**Making your report**

1. After you have two good pictures, minimize the program.
2. Open the desktop file called “Microscope Report” and shrink the window.
3. Your pictures are in a folder called “ISCapture Images.” Open it and shrink the window.
4. Drag your 2 best pictures over to the “Microscope Report” page
5. Label the organisms and add the names of the people in your lab group
6. Print the page (it may take several minutes to print)
7. When the page prints, close the file but when it asks if you want to save say “no.”
8. Look at other organisms until the end of the period

**Preparing for the next class**

1. Open the “ISCapture Images” folder that contains your pictures
2. Make sure the “Home” tab is selected at the top of the page
3. Click on “select all” at the right top of the page
4. Click on the red X delete button
5. All your pictures should now be deleted
6. Open the ISCapture so the next class will be ready to go
7. Make sure the microscope is on the 10X objective