Microscope Lab 1

Marine Science

Set-up

Fold a piece of white paper so that you have 6 boxes. In each box

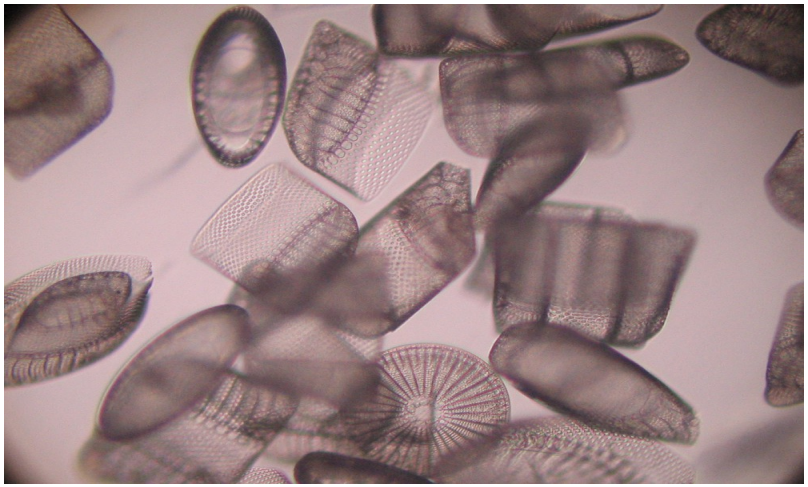
Draw a picture with color that shows the organism.

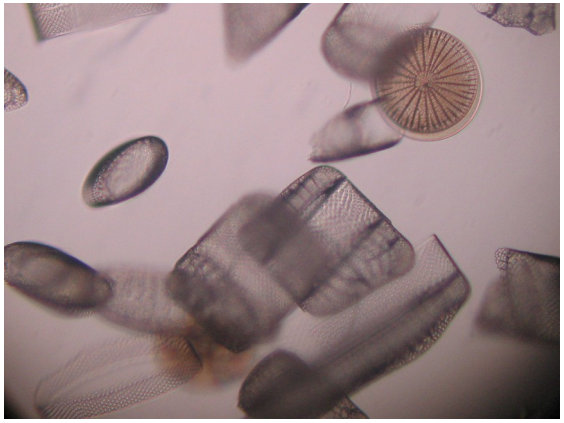
Say the magnification.

In class we assumed a field of view of 5 mm for 40x & 2.5mm for 100x. These may give you some size perspective.

Here are examples. Pretend that these pictures are what you would see if you were in class to do the lab. Draw your pictures based off of these images.

Diatoms

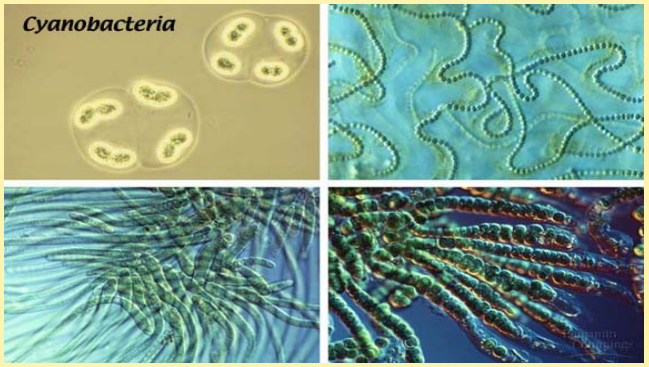


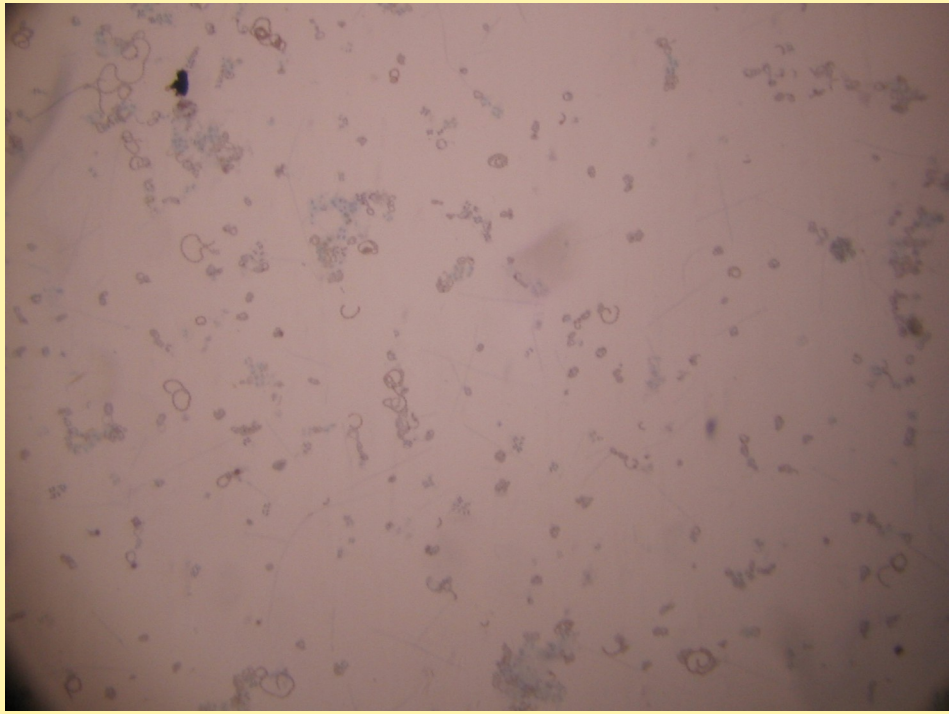


Diatoms presented here are at magnification of 100x

Notice in the bottom picture the 2 that are “golden” which is the phylum Chrysophyta.

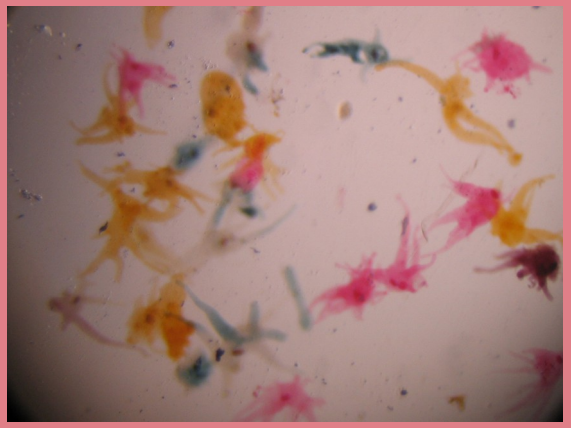
CYANOBACTERIA





The picture to the right is the image at a magnification of 40x.

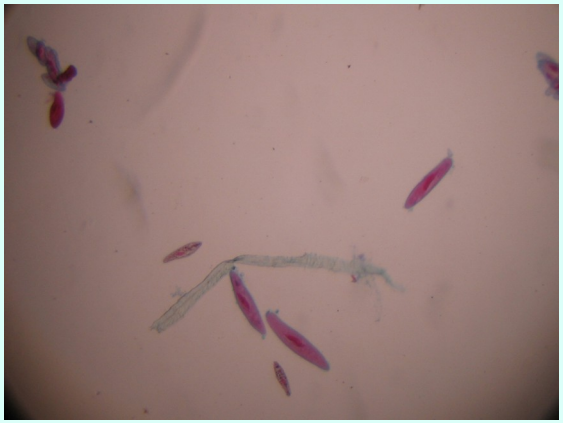
AMOEBA

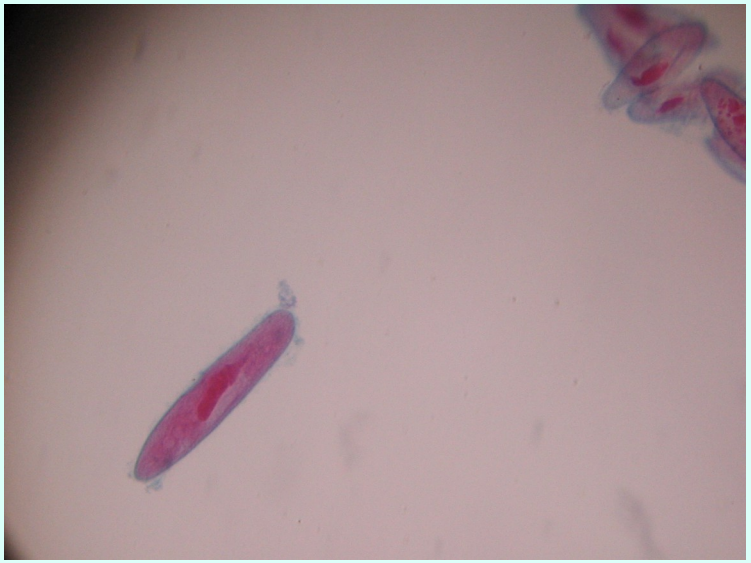


The top picture is at 40x and the bottom is at 100x. Each one has been dyed so that it is visible. There are different colored dyes. Notice the pseudopodia (false feet) & dark nucleus.

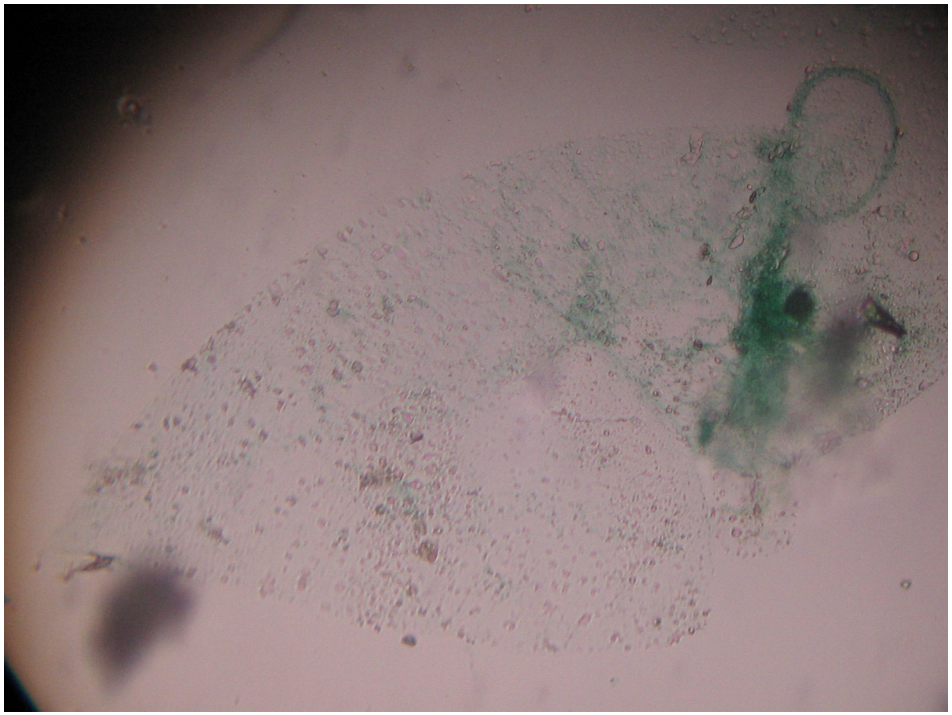
PARAMECIUM

The top is at 40x and the bottom is at 100x. Notice the red “oral groove” which is a fold that the paramecium has. Look close for the bluegreen tail on the bottom image.





FLAGILLATE (Noctiluca)



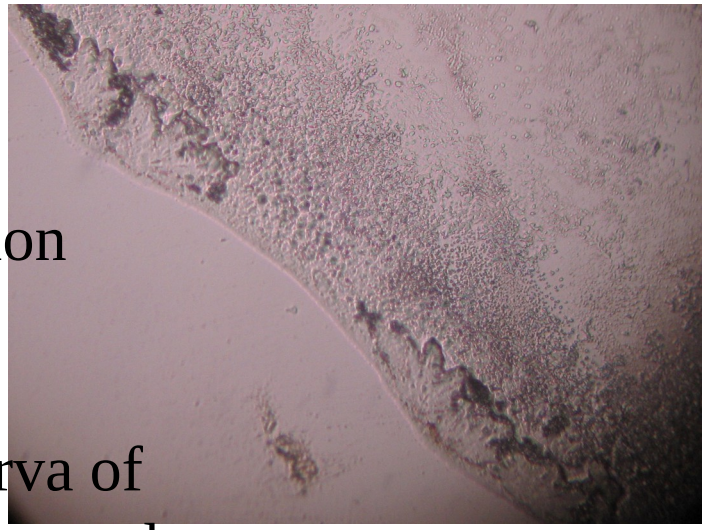
Look for the flagellum in this light green flagellate. It is the dark green curly string at the top right. This is at 40x.

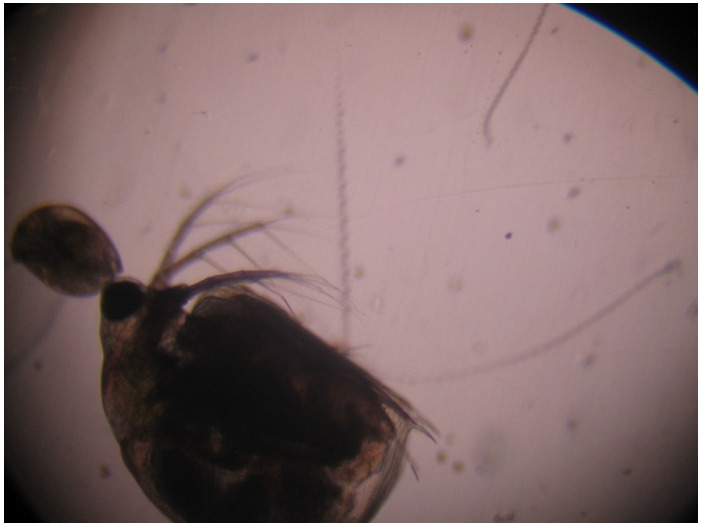
Waller Park Pond Water critters

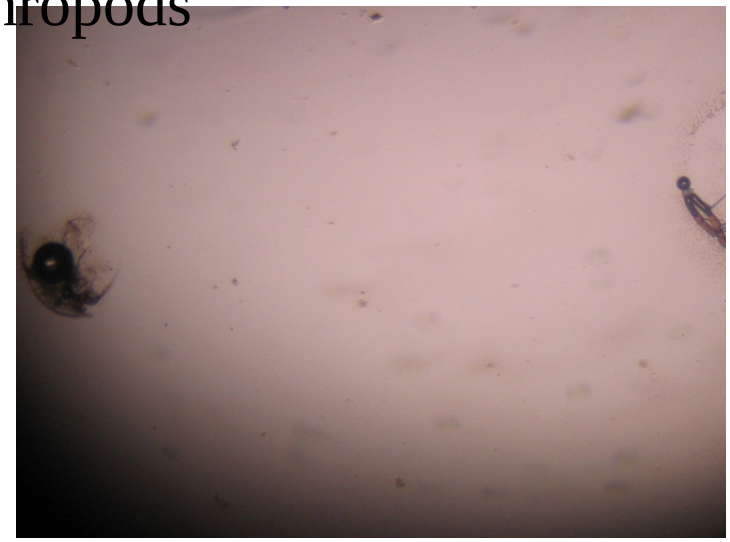
Draw One

Magnification of 100x

Most are larva of bugs or arthropods







Short Clip

QuickTime™ and a
Motion JPEG OpenDML decompressor
are needed to see this picture.

Click the image to play the clip.

If it doesn’t work, don’t worry greatly. It is just one example of protozoa life in Waller Park pond.