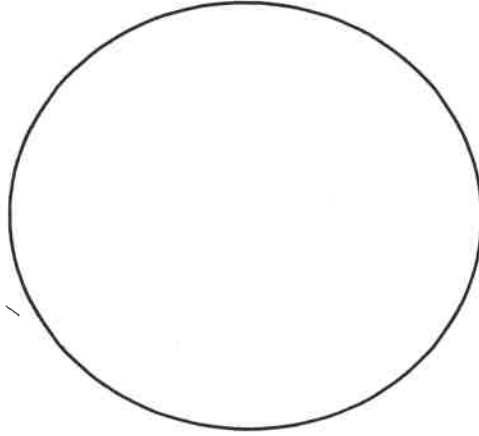


Microscope Lab Activity

Materials – microscope, slide, sugar, salt

1. Grab a slide and put a few individual salt granules on it. Turn on the microscope and place the slide on the stage. Start with using the 4x objective lens, then gradually work your way to a higher objective lens. Draw what you see in the space below.

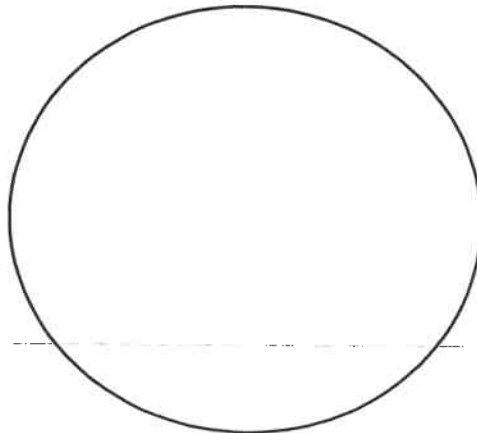
Magnification =



2. Looking through the eyepiece, briefly explain how you could move your image to the upper right area in your field of view. How does this affect the placement of your slide on the stage? What do you notice?

3. Now clean off your slide and put a few sugar granules on it. Follow the same procedure in question 1. Draw what you see in the space below.

Magnification =



4. Write out the rules for calculating the total magnification of a compound microscope.

5. Images observed under the light microscope are reversed and inverted. Explain what this means.

6. Is it possible to identify the difference between salt and sugar granules under a microscope? Explain.

7. A microscope has a 20x ocular (eyepiece) and two objectives of 15x and 25x. Calculate the low and high power objective lens magnifications in the table below.
