Microscopes!

We use magnifiers and microscopes to look at things that are very small. Today, we will learn how to use a hand lens or magnifying glass, a dissecting microscope, and maybe even a compound microscope to see the microscopic world!

What is the maximum magnification of each of these? Write it on the line below each.

<table>
<thead>
<tr>
<th>Microscope</th>
<th>Maximum Magnification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand lens</td>
<td>_____x</td>
</tr>
<tr>
<td>Dissecting Microscope</td>
<td>_____x</td>
</tr>
<tr>
<td>Compound Microscope</td>
<td>_____x</td>
</tr>
</tbody>
</table>

A. The Hand Lens: Let’s look at something with a hand lens. Draw what you see in the circle below and describe your “organism” if you can.

Describe what you see:

What is the magnification? ________

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B. The Dissecting Microscope: Draw what you see in the circle below and describe your “organism” if you can.

What can you see with the dissecting microscope that you couldn’t see before?

________________________________________________
________________________________________________
________________________________________________
________________________________________________
________________________________________________
________________________________________________

At what magnification did you make your drawing? ________

What type of organism is this? ________________________________________________________________

If you know, how do you know? ________________________________________________________________

__________________________________________________________________________________________

C. The Compound Microscope: Draw what you see in the circle below and describe your “organism” if you can.

What can you see with the compound microscope that you couldn’t see before?

________________________________________________
________________________________________________
________________________________________________
________________________________________________
________________________________________________

At what magnification did you make your drawing? ________
What type of organism is this? ________________________________________________________________

If you know, how do you know? _____________________________________________________________
__________________________________________________________________________________________
__________________________________________________________________________________________

What differences did you notice between what you saw with the hand lens, the dissecting microscope, and the compound microscope?
__________________________________________________________________________________________
__________________________________________________________________________________________
__________________________________________________________________________________________
__________________________________________________________________________________________