

Name _____

Date _____

Class _____

Virtual Microscope

Go to <http://www.brainpop.com/games/virtuallabsusingthemicroscope/>

Use the tutorial to help you answer the questions below

What sample are you testing? _____

In your own words define "contaminate" _____

What were the magnification powers of the objective lenses? _____

What was different/special about the 100x lens? _____

List the parts and functions that you had to mouse over. Please be mindful that on our microscopes the diaphragm is typically just beneath the stage or built into the stage but on this one it's at the bottom.

What do the numbers on the objective lenses indicate? _____

How do you know the nosepiece is in the right position for use? _____

What is the formula to find the total magnification? _____

What is the example they give you? _____

What do you think "differentiate" means? _____

Which knob should you start focusing with? _____

Where should the stage be when you start viewing a sample? _____

When you moved the slide up and to the right in the tutorial, how must you have actually moved the slide in real life to get the image to go up and to the right? _____

What is the total magnification when you switched over to high power? Show the calculation

Did you have to use the coarse adjustment knob on high power?

Should you? Why/why not? _____

When you moved the slide up and to the left in the tutorial, how must you have actually moved the slide in real life to get the image to go up and to the right? _____

What is the strongest magnification that you used? Hint: it's the oil immersion lens. Show the calculation.

What is the purpose of the oil? _____

Should the tip of the oil immersion lens touch the oil? _____

Should the tip of the oil immersion lens touch the slide? _____

Which type of bacteria ***should not*** be in the yogurt? _____

Give two examples _____

How are they usually killed? _____

What does the cleanup entail/include? _____