

Name: \_\_\_\_\_

## Chapter 3 and 4

### Microbiology

Topics Covered So Far: \_\_\_\_\_

#### Metric Conversions:

- 1 meter = \_\_\_\_\_ nanometers
- 1 meter = \_\_\_\_\_ micrometers
- 1 micrometer = \_\_\_\_\_ nanometers
- 1 nanometer = \_\_\_\_\_ micrometers

#### Calculating Total Magnification

- How do you find the total magnification of a scope?
- Calculate the total magnification of viewing a specimen if the objective lens is:
  - 40X
  - 100X

#### Types of Microscopes

##### 1. Light:

Type of Light Scope	What is it used for?	Advantages	Disadvantages
1). Lightfield/Brightfield			
2). Darkfield			
3). Fluorescent			

2. Electron:

Type of Electron Scope	What is it used for?	Advantages	Disadvantages
1). Scanning			
2). Transmission			

Light vs Electron Scopes

	Light	Electron
Resolving Power		
Magnification Power		
Types of Organisms Visible		

Fixing

- What does fixing mean?
- How can you fix bacteria to a slide?
- Why do you need to fix bacteria to slides?

## Negative Stains

- What's another name for a negative stain? \_\_\_\_\_
  - What does it stain? \_\_\_\_\_ Why? \_\_\_\_\_
- 

Use	Advantage	Disadvantage
Examples of negative stains:		

## Positive Stains

- What's another name for a positive stain? \_\_\_\_\_
  - What does it stain? \_\_\_\_\_ Why? \_\_\_\_\_
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Use	Advantage	Disadvantage
Examples of positive stains:		