

Introduction to Biology Unit Notes

- Read section 1.1

List 3 individuals who would directly use Biology. (Be able to explain)

- Branches of Biology
 - _____ The study of animals
 - _____ The study of living organisms and their environment
 - _____ The study of viruses
 - _____ The study of bacteria
 - _____ The study of cell structure
 - _____ The study of insects
 - _____ The study of reptiles
 - _____ The study of plants
 - _____ The study of microscopic organisms
 - _____ The study of how living things function
 - _____ The study of fish
 - _____ The study of marine resources and technology

Parts of a Microscope: (Know the following parts of the microscope)

- Eye Piece
- Body tube
- Arm
- Base
- Stage
- Nosepiece
- Scanning Objective
- Low Power Objective
- High Power Objective
- Diaphragm
- Fine Adjustment
- Coarse Adjustment

What are the differences between?

Magnifying Lens

Light Microscope

Stereomicroscope

Electron Microscope

- Microscope Lab
- Re-teaching W-S 1

Read section 1.2

We often use English Units of measurement instead of SI units but in science we will use SI units the Metric System. One major thing to note with SI units is that they are in MULTIPLES OF: _____?

List at least one tool we may use to measure the following:

1. Length:
 2. Volume:
 3. Temperature
 4. Weight & Mass
 5. Time
- What is the **EXACT** Area of your Lab Table Top? (Black Portion)
 - This must be measured in Millimeters and Centimeters!
 - What is the **EXACT** Volume of your Lab Table Top? (Black Portion)
 - This must be measured in Millimeters and Centimeters!
 - Re-teaching 2 W-S

Scientific Method: Read Section 1.3

List the steps of the “Scientific Method” (Hint: Look at the steps of a “Lab Write-up”)

1. P
2. H.
3. P.
4. D.
5. C.

- Scientific Method Activity
 - Use the five steps of your “Lab Write-up” (scientific method) to find the volume of a penny.
- Critical Thinking W-S?
- Re-teaching W-S 3?

List 2 forms of technology and name one positive and one negative for each form of technology.

Traits of Life: Read pp.26-29

List the 8 traits of life:

1. R
2. G
3. D
4. F
5. E
6. C
7. R
8. A

- Study Guide W-S 7