NAME MOD **DUE** date

Module A Unit 1 Lesson 3 VIRTUAL LAB: Analyzing Cells

Slide 1: In this lab you will

 \* compare & contrast \_\_\_\_ cell types in terms of s\_\_\_\_\_\_\_\_\_\_\_\_ & s\_\_\_\_\_\_\_\_\_\_\_

 \* dif’t structures & functions of the o\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for each cell type

Slide 2:

 All organisms have \_\_\_\_\_\_\_\_\_\_\_

 These are the “building blocks of life”, this means……

Slide 3:

 A. TRUE FALSE There are many different cells in the world.

B. All classified into 2 basic types of cells:

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are single-celled organisms.

D. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ may be single-celled or multi-celled organisms.

E. Plants & animals are made up of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cells and are

\_\_\_\_\_\_\_\_\_ - celled.

Slide 3 & 4:

List EACH of the organelles and then state their function…in 5th grade level explanation!

Organelle (spell correctly!) Function

Slide 5:

\* To compare/contrast dif’t types of cells; use a \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

\* The prefix *micro-* means: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 (HINT: use [www.dictionary.com](http://www.dictionary.com) and scroll down to the “micro in science definition)

\* *organic* –

\* Fusion Module A text; REFERENCE page \_\_\_\_\_\_\_\_ shows a microscope with it’s various parts and their functions for additional use.

\* Be prepared for a QUIZ on the various parts of the microscope and their functions!

\* *ocular* – (define)

\* why does it make sense that the *ocular* lens is so named?

\* *coarse* – (define)

\* Does the *coarse* objective lens make large or detailed changes in the focus? EXPLAIN based upon the MEANING of the word “coarse”

\* Which TWO parts of the microscope should you hold in order to safely carry it from one place to another? EXPLAIN….

SLIDE #6

\* Prediction:

SLIDE #7 PLAN: (list your step by step plan…..ADJUST as needed!)

SLIDE #8

\* complete directions and table for the PLANT slide

\* TYPE your findings – THEN create the table as it appears on slide 8; WRITE in your findings

 AND include a SKETCH of what you see!!

\* CLICK on the microscope icon…..this will take you back so you can now click on the ANIMAL

 slide…..you will need to TYPE your information into the table THEN complete your WRITTEN

 table with your findings AND add a SKETCH

\* CLICK on the microscope icon again….then click on the PROKARYOTE slide

 Complete your WRITTEN table with the findings AND a SKETCH at the first

 magnification power…..

THEN click to go to the HIGHER magnification; ADD a box in your table that has

 “prokaryote HIGH power” then add to your findings the additional details that you can

 see at the higher magnification….AND the SKETCH of the slide at the higher power.

SLIDE #9 ANALYZE your findings….describe the similarities and differences of the different types of cells.

SLIDE #10 What additional information do you need to add to your findings? Include those additional notes here.

SLIDE #11 Draw a quick sketch of each of the types of cells AND LABEL which type they are at the BOTTOM of your sketch!

 ADD these notes under EACH sketch; the type of microscope and the magnification X

SLIDE #12

What is “special” about the mitochondria and chloroplasts?

SLIDE #13 List the FIVE key summary points in NOTE FORMAT! Use bullet points!

\*\*\* When you are finished – be sure all parts are completed and are your BEST work!

 Is your complete heading on your paper?

 Turn it in to the “IN BIN” on Miss M’s desk by the DUE DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_