March 2, 2020

1. Collect ½ Sheet at the door (basket or Coach)
2. Sharpen Pencil
3. Sit SILENTLY in assigned seat
4. Put away ALL Electronics Other than Chromebook in Backpack. If I see it, I WILL take it.
5. Read and Complete PDN on OWN

TEK 6.12 B

(B) recognize that the presence of a nucleus is a key factor used to determine whether a cell is prokaryotic or eukaryotic

LO:

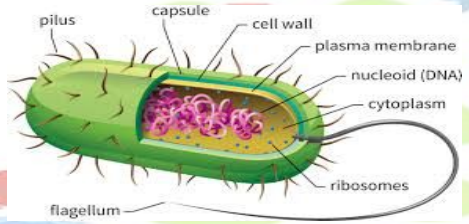
Students will determine what is required for a cell to be a prokaryotic cell vs an eukaryotic cell through an interactive activity / Booklet.

(Booklet may take several days to complete)

DOL:

Students will complete 4/4 questions over prokaryotic cell vs' eukaryotic cell with 80% accuracy or higher.

1. What type of cell has a cell membrane but does not have membrane bound organelles?
2. What type of cell has a nucleus and membrane bound organelles?
3. Eukaryotic cells and prokaryotic cells have some parts in common. Which of the following parts would you find in both types of cells?
4. What does the diagram below represent?



Agenda

1. PDN
2. Pair Share
3. Booklet
4. DOL

Pear Deck is NOT working, so discuss as class when asked to type into pear deck

What do you know about cells? List as many things as you can without using any books or technology for the answer. Don't Forget to include your first name.

Students, write your response!

Pair Share what you wrote about cells with your table partner (30 seconds)
Add any new information you learned to your list.

Regroup and discuss as a class
Teacher list ideas on board, students copy into journal

Definition of Cell

A cell is the smallest unit that is capable of performing life functions.

Is this statement true or false?

There is only 1 type of cell that makes up all biotic organisms.

True

False

Well, the answer is false… Want to know why/how? Then follow along to complete the fun activity described below.

Teacher will pass out Prokaryote / Eukaryote Cell Book to students.
Teacher will model/explain how to put foldable/booklet together.

Students will follow along with teacher to create own foldable/booklet
Students will follow teacher directions on how to complete the foldable/booklet

Cover Page: Honors: answer the question below based on what you already know about cells on the lines provided on the front of your booklet Regulars: pair share with table partner Your answer to the question below based on what you already know about cells..

Which type of cell do you think you are made up of? Explain…

Don’t forget to write your name / class period on the bottom of cover.

Drag your dot to the type of cell you said/think you are:

Prokaryote

Eukaryote

Neither

To understand what type of cell your body is made out of you first need to understand what states that we are all made up of cells. This is called…..

The Cell Theory

Ok… But who came up with this “theory”? Well let me introduce you to some scientists from the past. (6:12 mins. long) Honors:Use this information to complete page 1 in your booklet Regulars: complete foldable teacher will pass out

THE WACKY HISTORY OF CELL THEORY

Regulars: Cell Theory Foldable

Write your name and class period on the back side of foldable.

Front of Foldable

Cell Theory	Who was first to call it a cell?
Step 1	Who stated all plants are made out of cells?
Step 2	Who stated all cells come from other cells?
Step 3	What is a cell? (Definition)

Inside of Foldable

Definition Use both squares to answer	Answer to ? Use both squares to answer
Write out Step 1 Use both squares to answer	Answer to ? Use both squares to answer
Write out Step 2 Use both squares to answer	Answer to ? Use both squares to answer
Write Step 3 Use both squares to answer	Definition Use both squares to answer

Ok, so all living organisms are composed of cells but do you know which type of cell you are made out of yet? Prokaryote or Eukaryote??

Honors: Turn to page 2 in your booklet. "A Tour Inside the Cell!" Regulars: Turn to page 1/2

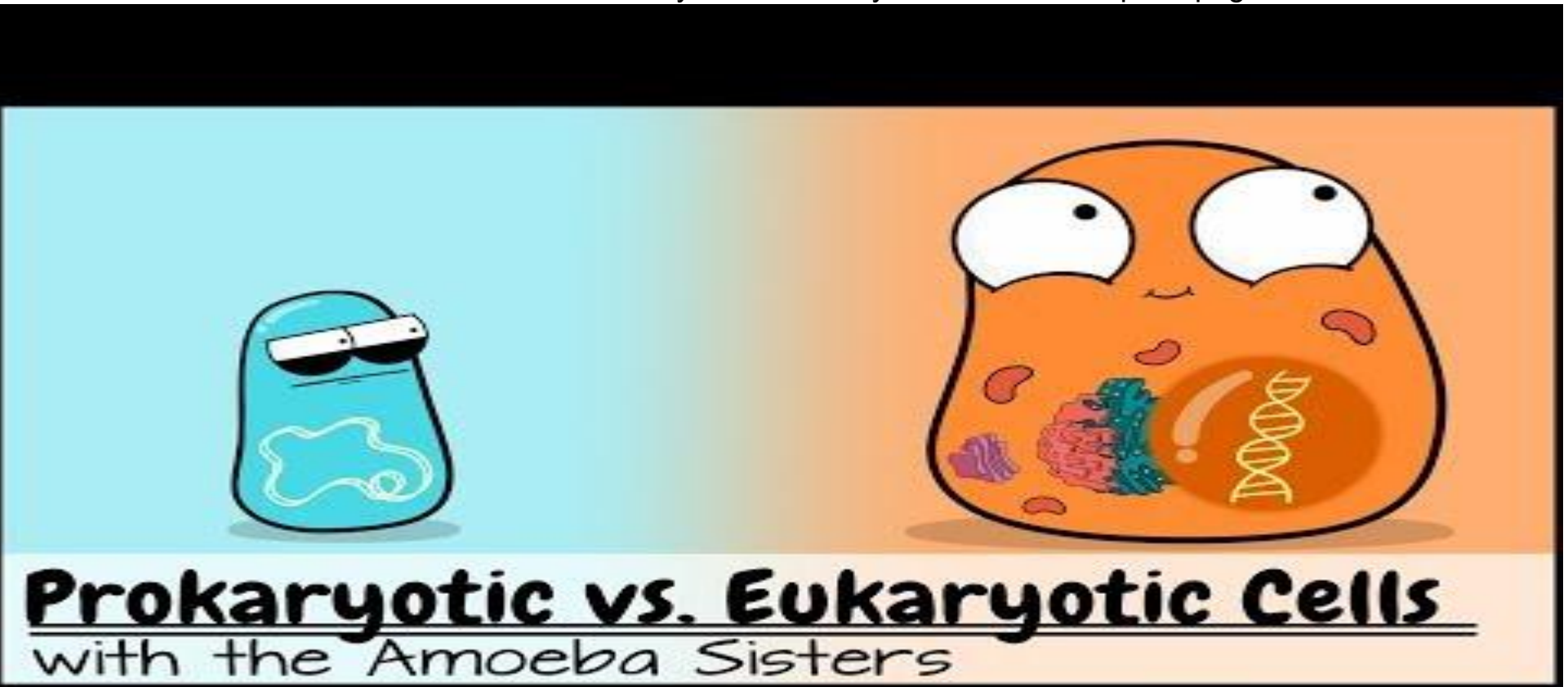
Directions: Use the video that follows to assist with the chart below and/or use the pages listed below..

Pg. 469-477 in "Interactive Science" purple textbook

Pg. 076-078 in ScienceSaurus textbook

The answer to our question once and for all is……..

Honors use the video “Prokaryotic vs’ Eukaryotic Cells” to complete page 7



Drag your dot to which type of cell you now think you are made up of:

Prokaryote

Eukaryote

Neither

Students, drag the icon!

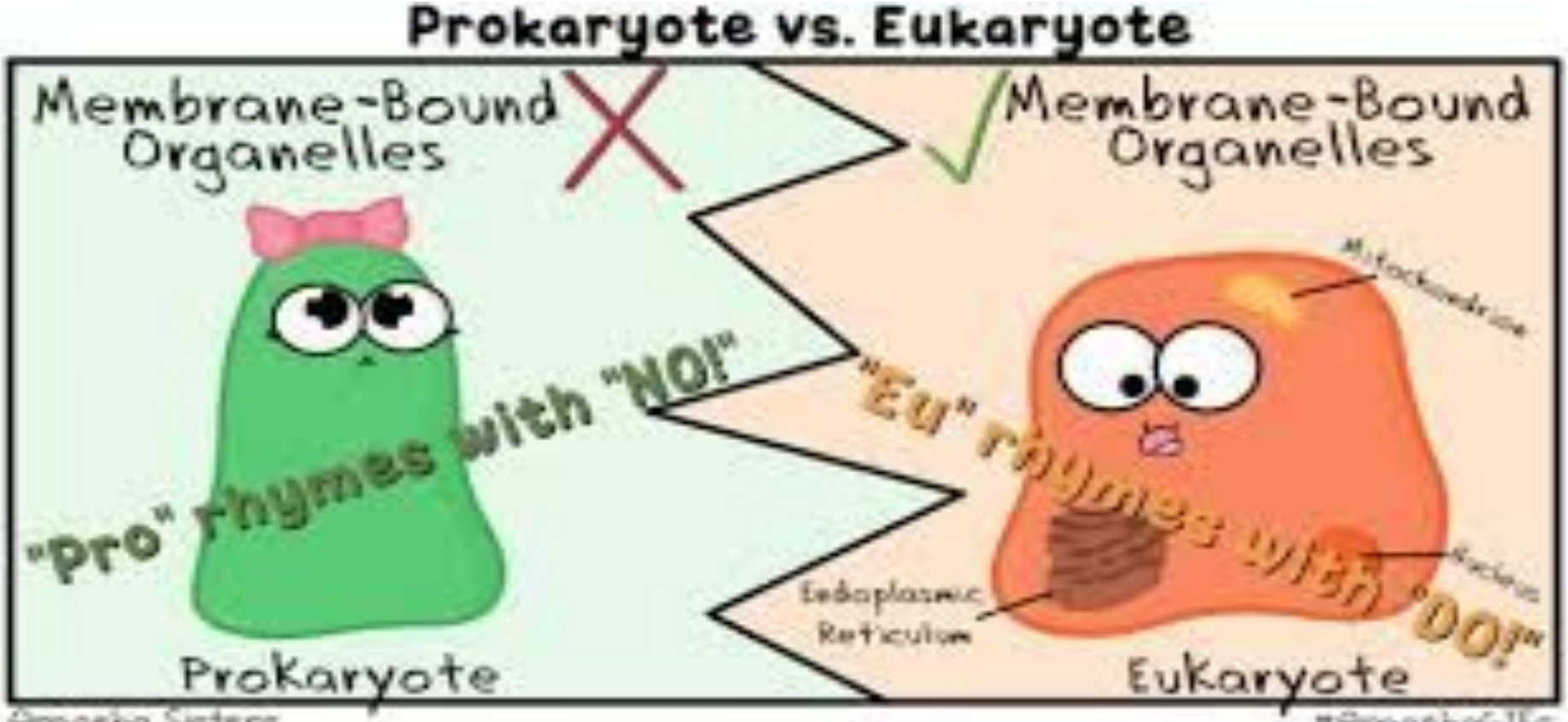
Use the slides that follow to help complete pages…

#3-5 in the Honors Booklet
#3-6 in Regulars Booklet

Easy way to remember the two type of cells...

Pro = No

Eu = Do

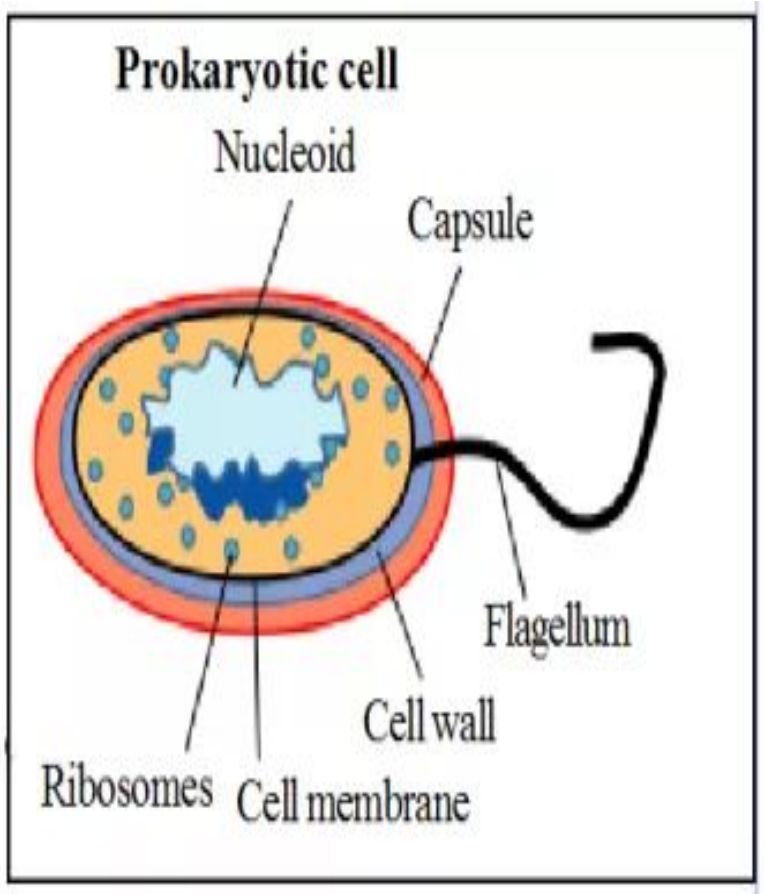


Prokaryotic Cell

*have NO Nucleus or NO organelles enclosed within a membrane.

*DNA is Free-Floating

*All species in the domains Archaea and Eubacteria have prokaryotic cells.



Eukaryotic Cell

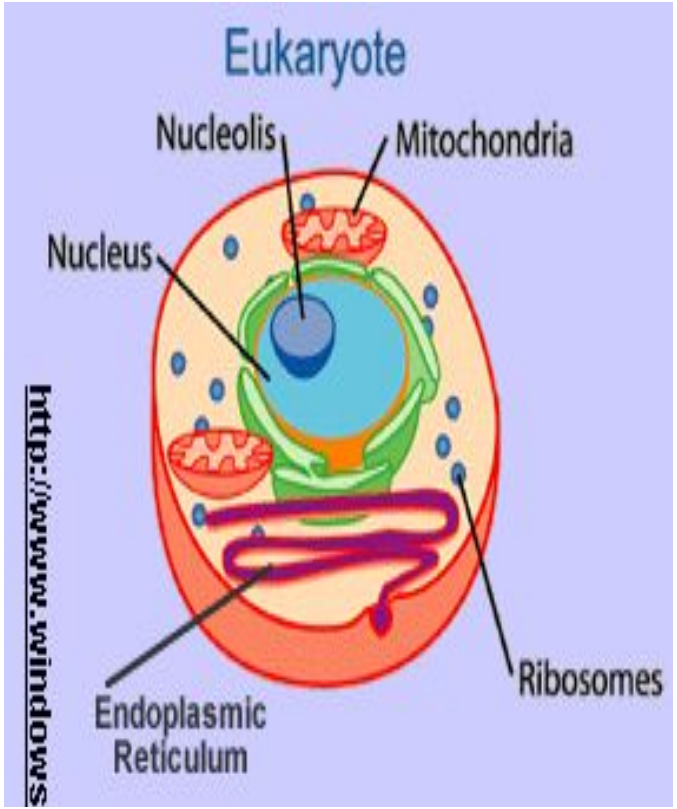
*have a Nucleus and organelles that are surrounded by membranes.

*Each organelle does a specific cell function.

*DNA is found with-in the nucleus

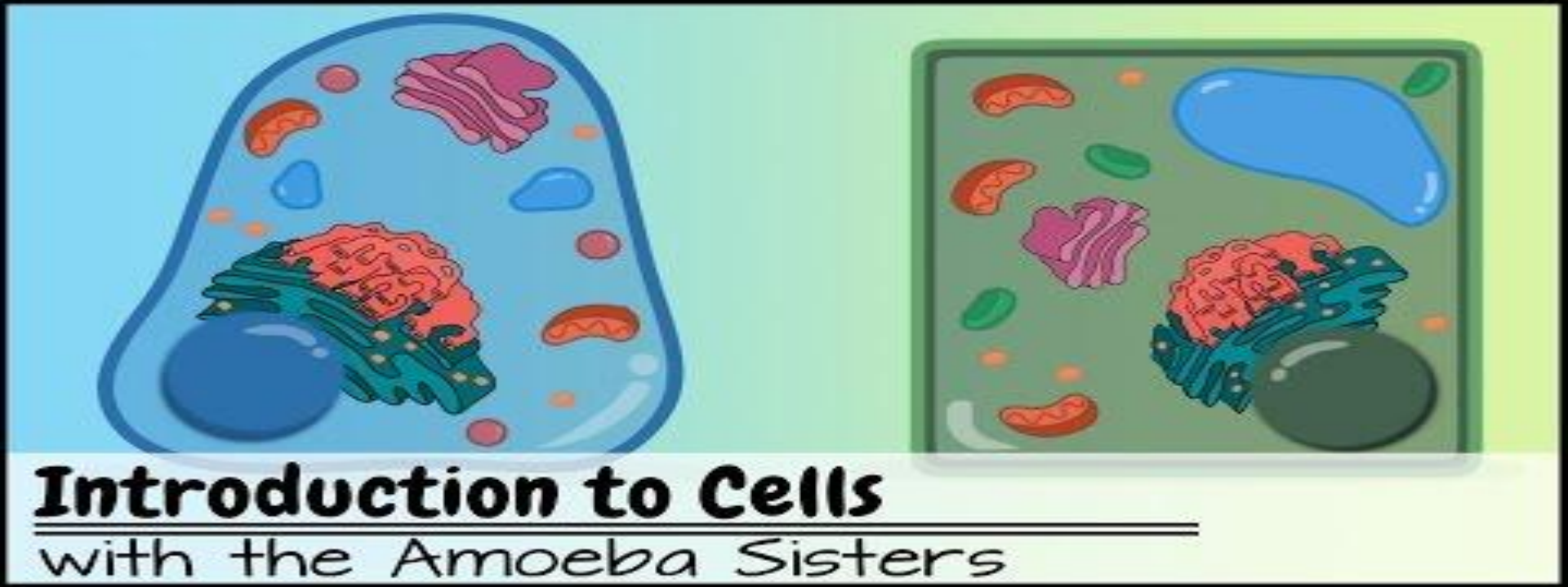
*All species in the Eukaryota domain (protists, fungi, plants, and animals) have eukaryotic cells.

*Individual protists have only one cell, while plants and animals can have trillions of cells.



Honors to review: Watch Amoeba Sisters “Introduction to Cells” to assist with completing page 5

Regulars to review: Watch the video to assist with pgs. ¾ in your booklet



Compare / Contrast Prokaryotic vs' Eukaryotic Cells by completing a venn-diagram card sort.

Make sure that you transfer your answers to the venn-diagram on page 6 honors and/or page 7 regulars once teacher has checked your completed card sort

Prokaryotic / Eukaryotic Anchor Chart / Diagram Project

Must Include:

Definition of a Prokaryotic Cell / Eukaryotic Cell
Detailed/Labeled Drawing of a Prokaryotic Cell
Detailed/Labeled Drawing of an Eukaryotic Cell
Explains/Shows what the two type of cells are alike (think Venn-Diagram
Explains/Show what the two type of cells are different (think Venn-Diagram)
First/Last name
Class Period
Color / Neatness / Creative