

Includes Google Slides

Cells and Cell Processes Lesson Plan

Preparation

- · Print out a vocabulary board for each student to use throughout unit
 - o Laminate or place in page protector
- Book
 - o Print out, laminate, and bind
 - OR your students can listen to the pre-recorded version.
- Vocabulary cards
 - Print out a set of cards onto cardstock and laminate
 - o Make one set for each student and also one for the teacher to use in 1 Spy

Preassessment (do day 1 before starting lesson)

- . Choose the form of the assessment that best fits the learning level of your students
- · Give the assessment to assess what your students may already know
- . I cannot emphasize enough how important this step is. If you want to see growth, this preassessment is so important!!

Teaching Tips

- . Color Coding: this is a really easy way to add more structure to a matching activity. Outline or color in an empty box or sorting label. Outline or color in the corresponding picture symbols the same colors. Becomes a color matching
 - a. For more info, read more here: https://specialneedsforspecialkids.org/2015/09/05/using-color-coding-for-
 - b. I also have a blog post on differentiating one activity 3 ways: https://specialneedsforspecialkids.org/2018/10/22/differentiating-1-activity-3-ways-easily-and-effectively/
- . Make you own copies of the activities. Every day I review the activity we did yesterday. For that reason:
 - a. I often complete the activity myself and often laminated it for easy review that I could use year after year.
 - b. My copies were also helpful as either a model for students who needed more support or as a way for more advanced students to self-check their



Quick Look

Day	Activity	Day	Activity	
1	Book Vocab cards introduction Circle map	9	Book Vocab cards activity Sorting activity	
2	Book Vocab cards activity Labeling activities	10	Book Vocab cards activity Make a 3D cell	
3	Book Vocab cards activity Labeling activities	11	Book Vocab cards cut and paste Vocabulary puzzle	
4	Book Vocab cards activity Labeling activities	12	Book Vocab cards cut and paste Vocabulary puzzle	
5	Book Vocab cards activity Labeling activities	13	Book Vocab cards activity Close worksheet	
6	Book Vocab cards activity Venn Diagram	14	Book Vocab cards activity Close worksheet	
7	Book Vocab cards activity Venn Diagram	15	Book Vocab cards activity Close worksheet	
8	Book Vocab cards activity Matching activity	16	Assessment Pizza cell	

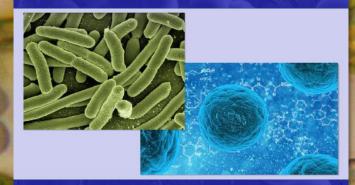
Day 4

Activity	Notes	Materials
Read or listen to a recording of the book (10 minutes)	Read through the story, asking lots of questions Continue to make connections between book and vocabulary board	Book Vocabulary board
Vocabulary cards Go Fish Game (15 minutes)	Using several completed student sets of vocabulary cards play a traditional go fish game Modify/use devices or buddies as needed for additional support	Vocabulary cards (student sets) Vocabulary board
Labeling activity review (5 minutes)	Review the labeling worksheets completed yesterday	Complete labeling worksheets
Labeling activity (10 minutes)	Do the cell process labeling activities There are several to choose from, either labeling the parts or making your own cell Choose some to do today and some to do tomorrow (there may be more than you need; can save some for later review) Make connections to the book as necessary	Labeling worksheets Scissors Glue
Sharing (10 minutes)	Each student shares their finished worksheet with the group using the communication method of their choice	Completed worksheet Communication devices

Day 6

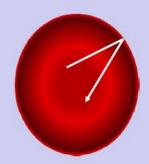
Activity	Notes	Materials
Read or listen to a recording of the book (10 minutes)	Read through the story, asking lots of questions Continue to make connections between book and vocabulary board	Book Vocabulary board
Vocabulary cards <mark>Puzzle</mark> Game (10 minutes)	Give each student a pile of pieces Have them reassemble the pieces into the correct symbols They may have to ask each other if someone else has the second half to a piece they have.	Vocabulary cards (set where each card is cut in half)
Labeling activity review (5 minutes)	Review the labeling activity completed yesterday	 Completed activity from yesterday
Venn Diagram (10 minutes)	Do the one of the Venn Diagrams Choose the best option for your students (either with or without color-coding) Make connections to the book as necessary	Venn Diagram worksheet Scissors Glue
Sharing (10 minutes)	Each student shares their finished Venn diagram	Completed activity Communication devices

There are 2 main categories of cells: prokaryotic and eukaryotic.



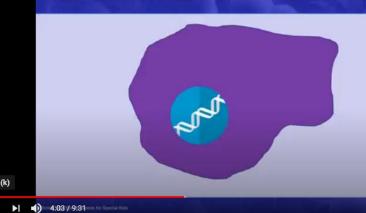
51 page book

This membrane goes around the outside of the cell and keeps everything inside.



includes movie

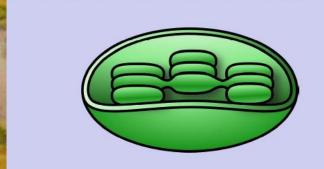
All eukaryotic cells, however, do have a nucleus. Each cell only has one, and it is where all the DNA or information about the cell is stored.



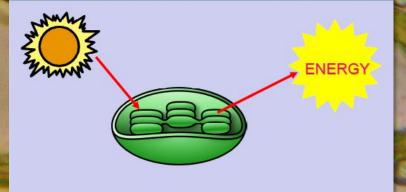
In fact, proteins are necessary for all plants and animals to live. So the ribosomes have a VERY important job.



It is called photosynthesis, and it occurs in a special organelle called a chloroplast.



Finally, plants also have chloroplasts that are filled with chlorophyll and turn sunlight into ATP through a process called photosynthesis.





cell wall

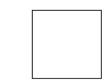
An extra layer that goes around plant cells that makes them more sturdy.



Jell-O like substance that fills the cell and cushions what is inside.







nucleus

The brain of the cell. Tells all the organelles

what to do.

organelle

ngs inside the cell that have their own membrane and special job to do.



Vocabulary board

cell

Building block of all living things.



eukaryotic

More complex cells with a nucleus and organelles. Most plant and animal cells are examples.



prokaryotic

16 Vocab cards

Very simple cells with no nucleus. Bacteria is an example.



cell membrane

Goes around the outside of all cells and regulates what comes in and goes out.



١	ECO TO B		cell wall	cytoplasm
	A MILE	53		
	Organelles that are like factories and create proteins for the cell to use.	Or		
	Building block of all living things.	Th		
į			organelle	nucleus
	Organelle found only in plant cells and turns sunlight into energy.	Jel		





Circle map































ATP















































cellular respiration

















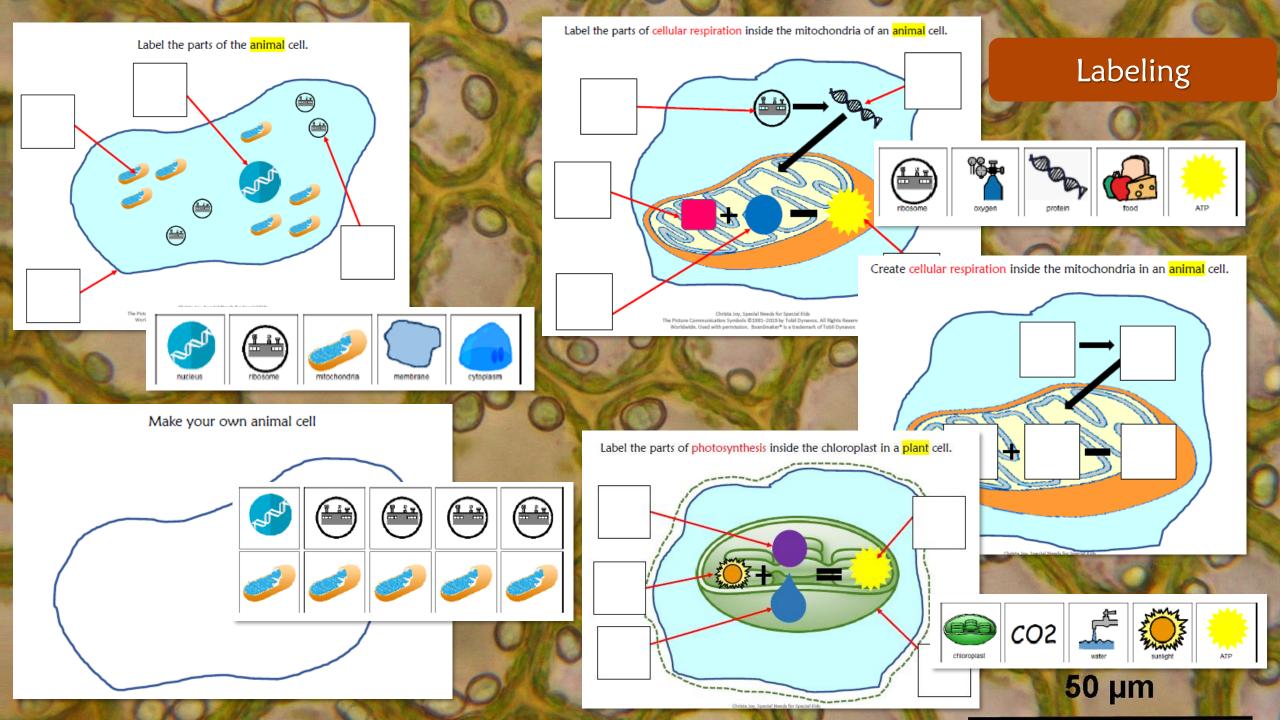


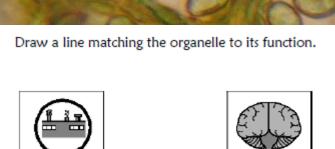




Venn Diagrams

50 µm







mitochondria

nucleus

cholorplast

















Sorting

Draw a line matching the cell structure to its function.



































50 µm



P R O K A R Y O T I C A
S A C Y T O P L A S M L
M O R G A N E L L E P L
G Q R I B O S O M E J
M I T O C H O N D R I
Y E U K A R Y O T I C
C E L L N U C L E U S U

Vocab puzzles

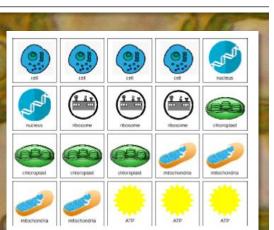
Find the following words in the puzzle. Words are hidden \Rightarrow and Ψ .

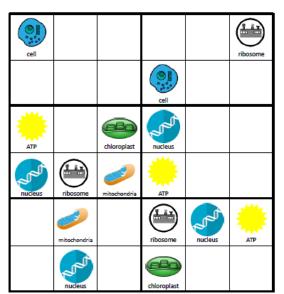
MITOCHONDRIA PROKARYOTIC EUKARYOTIC

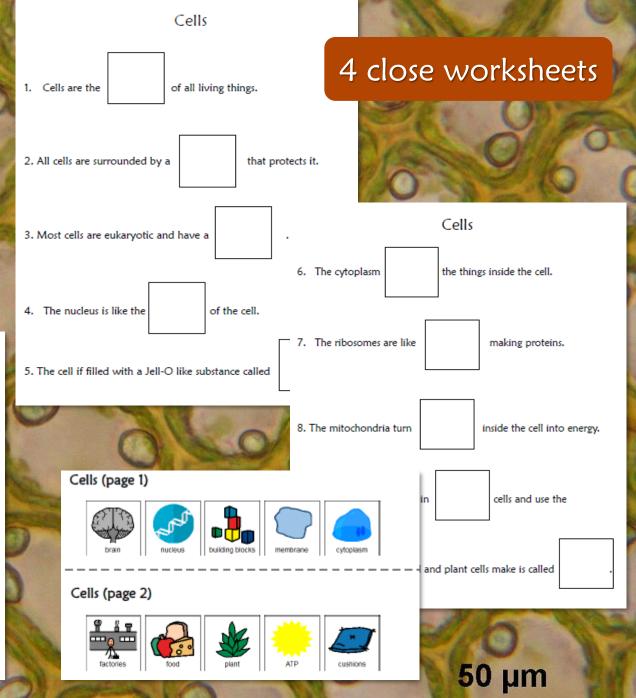
CYTOPLASM

ORGANELLE MEMBRANE RIBOSOME NUCLEUS CELL WALL

Cells







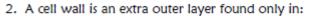
Version 1

1. All plant and animal cells are surrounded by a:















3. The brain of the cell is the:







4. Which cells do NOT have a nucleus?







5. What are cells filled with that protect what is insid

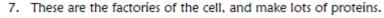




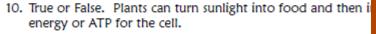








- A. ribosomes
- B. cell wall
- C. chlorophyll
- 8. This is where cellular respiration occurs in plant and animal cells.
 - A. protein
 - B. nucleus
 - C. mitochondria
- 9. Where does photosynthesis occur?
 - A. prokaryotic
 - B. teeth
 - C. chloroplast



- A. true
- B. false
- C. I don't know



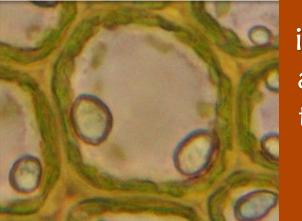




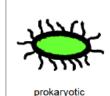
Q3







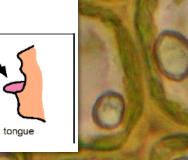
Plus directions for making a large 3D interactive cell and directions to make a cell pizza



nucleus

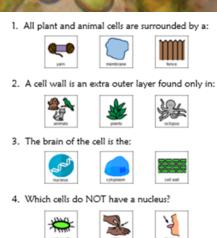


cytoplasm





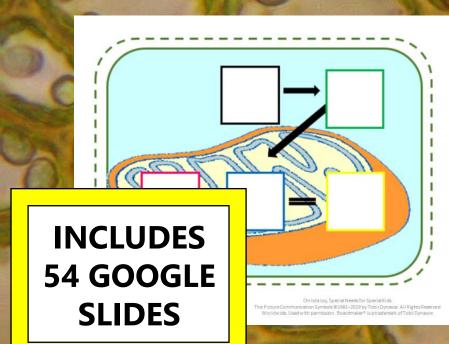


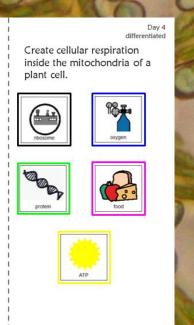


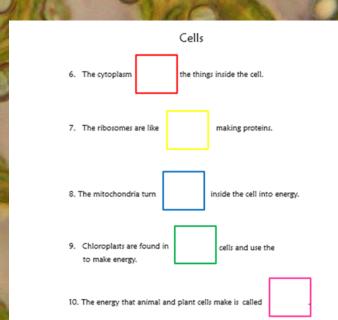


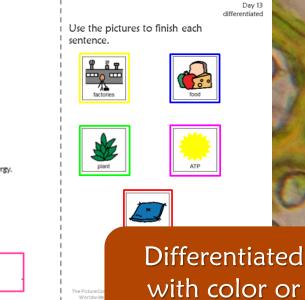
2 sets of slides; one with differentiation

Place the circle on the correct









other method