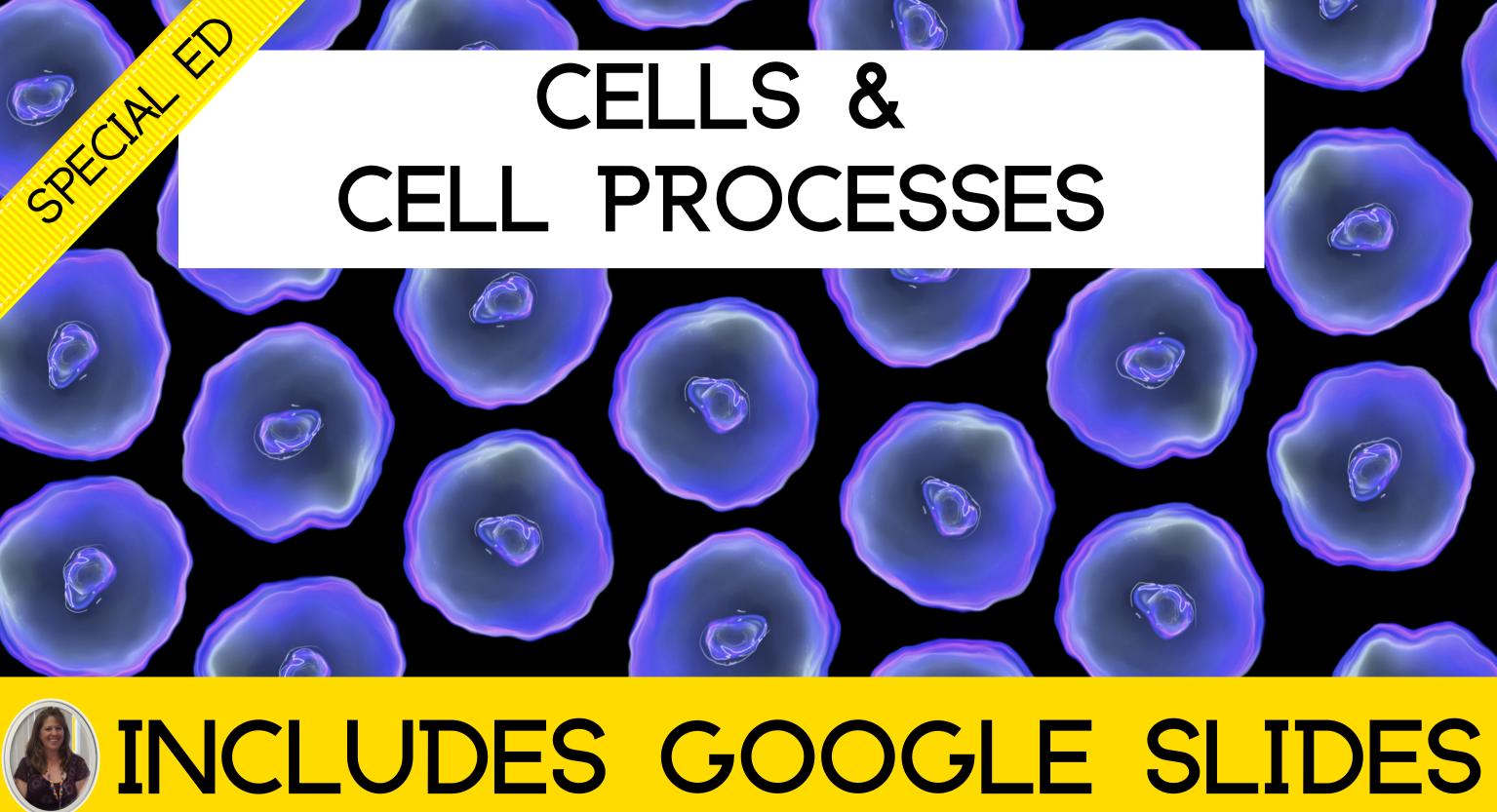
CELLS &





For students who:

- pictures for support

- are emerging or non-readers • take alternate assessments • are in special education • short-attention span • lack pre-requisite skills • benefit from the use of
- middle/high school

Table of Contents

Pages	Activity	
4-54	Cells and Cell Processes book	
55-57	Vocabulary board	
58-67	Vocabulary cards	
68-84	Vocabulary cut and paste	
85-89	Circle map	
90-131	Labeling activities	
132-142	Venn diagrams	
143-153	Matching activities	
154-158	9-160 Making a 3D cell	
159-160		
161-162		
163-164	Vocabulary Word search	
165-177	Vocabulary Sudoku	
178-185	Cloze worksheets	
186-203	Assessment	
204-205	Terms of Use	

Also included with this unit in separate files:

- Lesson plan
- PowerPoint show
- Links and directions for digital activities

This unit contains over 100 pages of material. I have included a detailed lesson plan to help you make the most of everything in this unit including how to add some group activities.

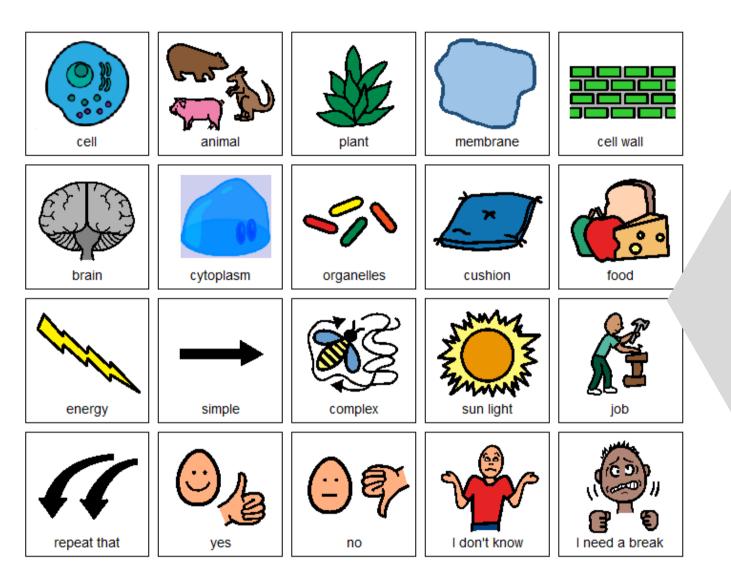
This unit comes in 2 separate files, one in color and one in black and white. Day 2

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>I Spy</mark> Game (10 minutes)	 I play this game, or variations of it the first few days Determine how many cards your students can handle in front of them. Since this is the first time playing this game, I make it easy. Hold up a card, and have students find the matching one and hold it up Discuss relevant points on the card You can also play this game in this manner having them find the symbol on their vocabulary board 	 Vocabulary cards (student set and teacher set) Vocabulary board
Circle map review (5 minutes)	 Review the circle map completed yesterday 	 Circle map completed yesterday
Labeling activity (10 minutes)	 Do the cell labeling activities There are several to choose from, either labeling the parts or making your own cell Choose 2 to do today and 2 tomorrow 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

The lesson plans contain:

- Overall tips for teaching students with significant needs • A quick look at what you will do each day
- Detailed instructions on how that day's lesson should run





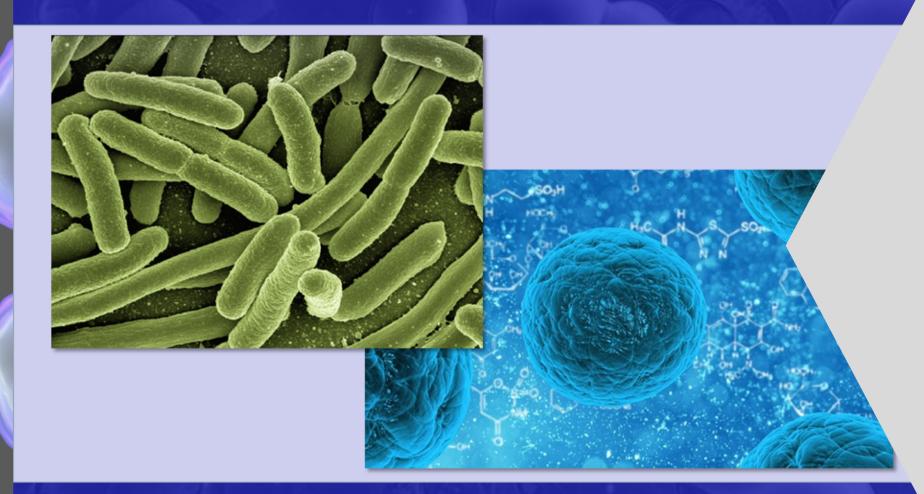
Christa Joy, Special Needs for Special Kids The Picture Communication Symbols ©1981-2019 by Tobii Dynavox. All Rights Reserved Worldwide. Used with permission. Boardmaker® is a trademark of Tobii Dynavox



This unit comes with a vocabulary board.

- Vocabulary boards are great for ALL students to assist with
- participation and engagement in group discussions.
- Tips on how to use in the unit!!

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

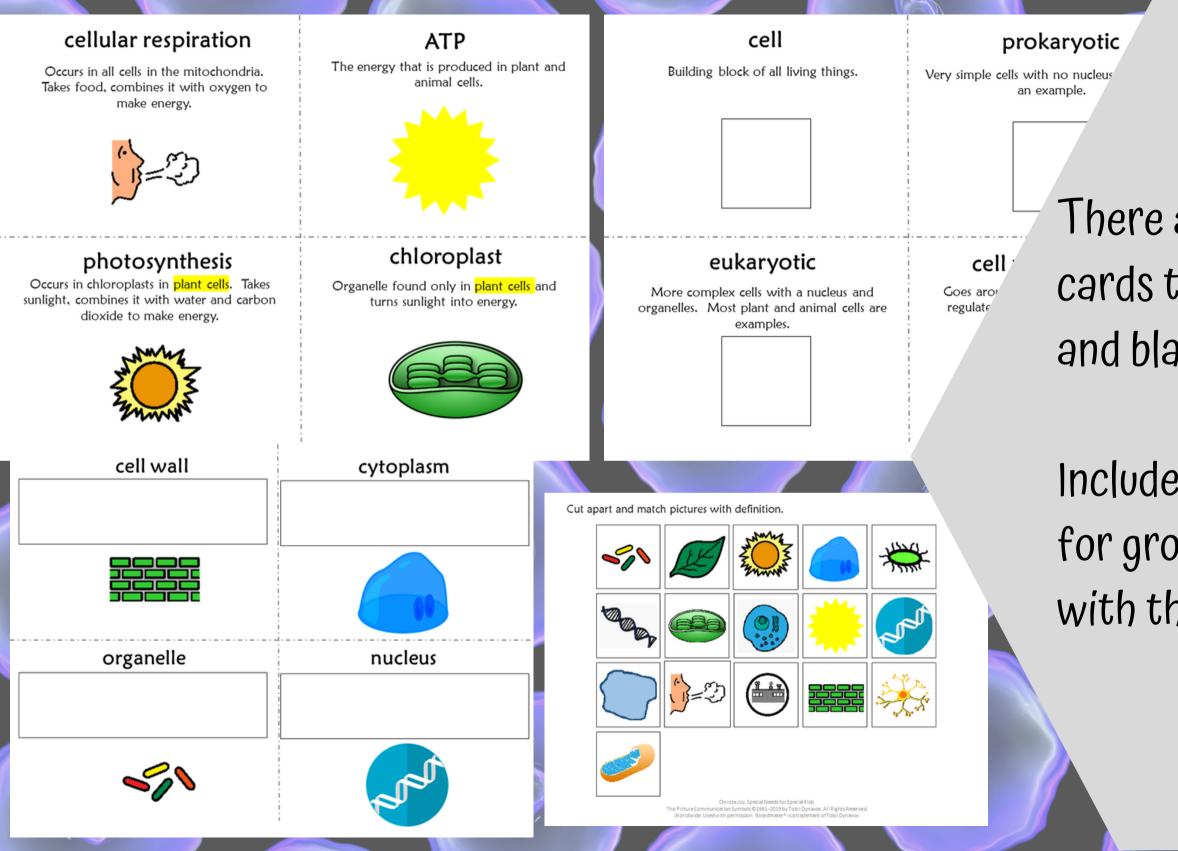


of animal and plant cells.

It comes as a PowerPoint and an mp4 (movie) file so you do not have to print it out.

Christa Joy, Special Needs for Special Kids

There is a book with this unit using simple text and photos. It is 50 pages and is an overview



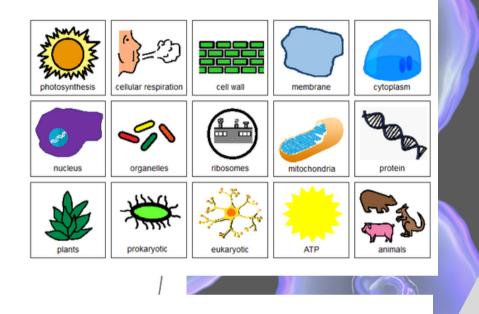
There are 16 vocabulary cards that come in color and black and white.

Included are suggestions for group activities to do with these each day.



Errorless version

Cut apart pictures and place in circle map about cells.

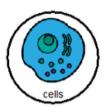


Cut apart pictures and place in circle map ONLY IF they relate directly to cells.



Circle maps are a great way for There are 2 versions:

- One is errorless

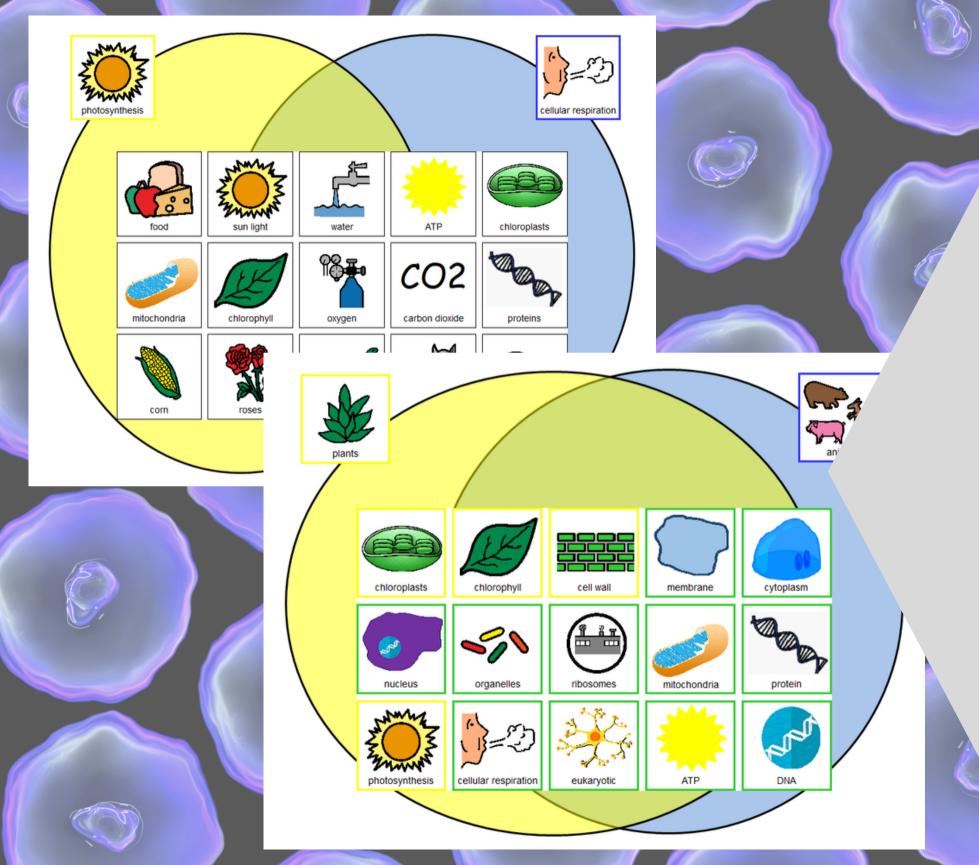


Christa Joy, Special Needs for Special Kids The Picture Communication Symbols @1981-2019 by Tobii Dynavox. Worldwide. Used with permission. Boardmaker® is a trademark of

One has wrong answers mixed in students will have to set aside

students to see the concept at a glance.

There are is a circle map reviewing the main parts of animal and plant cells.

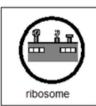


Both come with a color-coded version for more support.

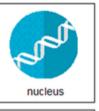
There are 2 Venn diagrams.

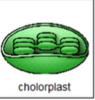
photosynthesis and cellular respiration • plant and animal cells.

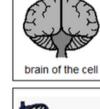
Draw a line matching the organelle to its function.



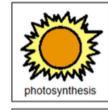


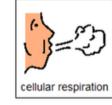




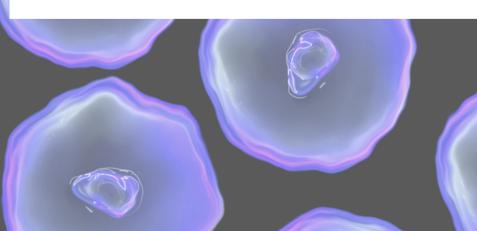


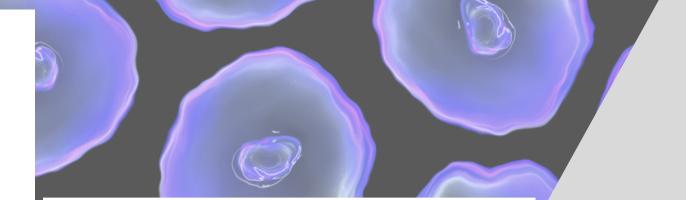




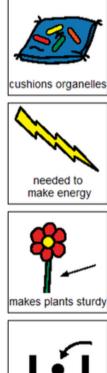


Christa Joy, Special Needs for Special Kids The Picture Communication Symbols ©1981–2019 by Tobii Dynavox. All Rights Reserved Worldwide. Used with permission. Boardmaker® is a trademark of Tobii Dynavox



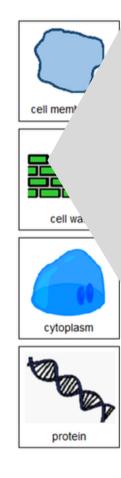


Draw a line matching the function to the cell structure.



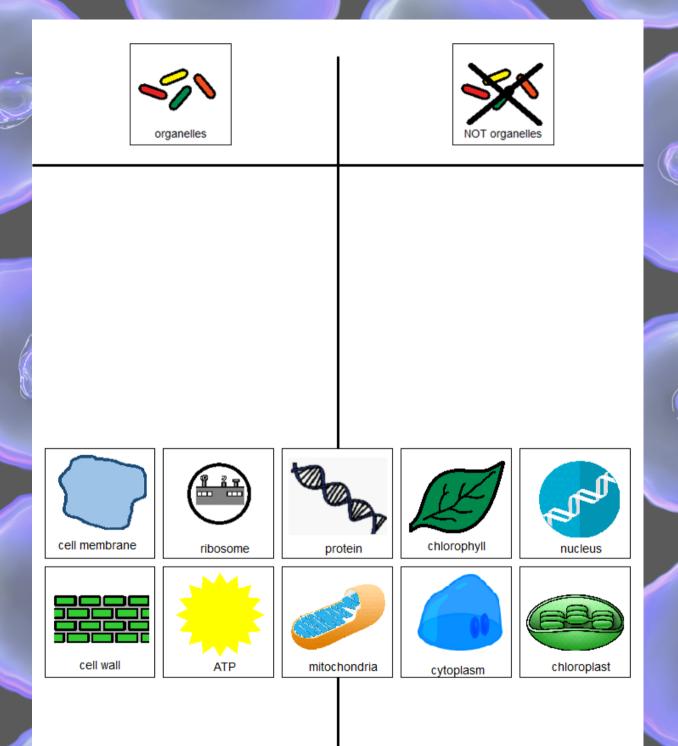






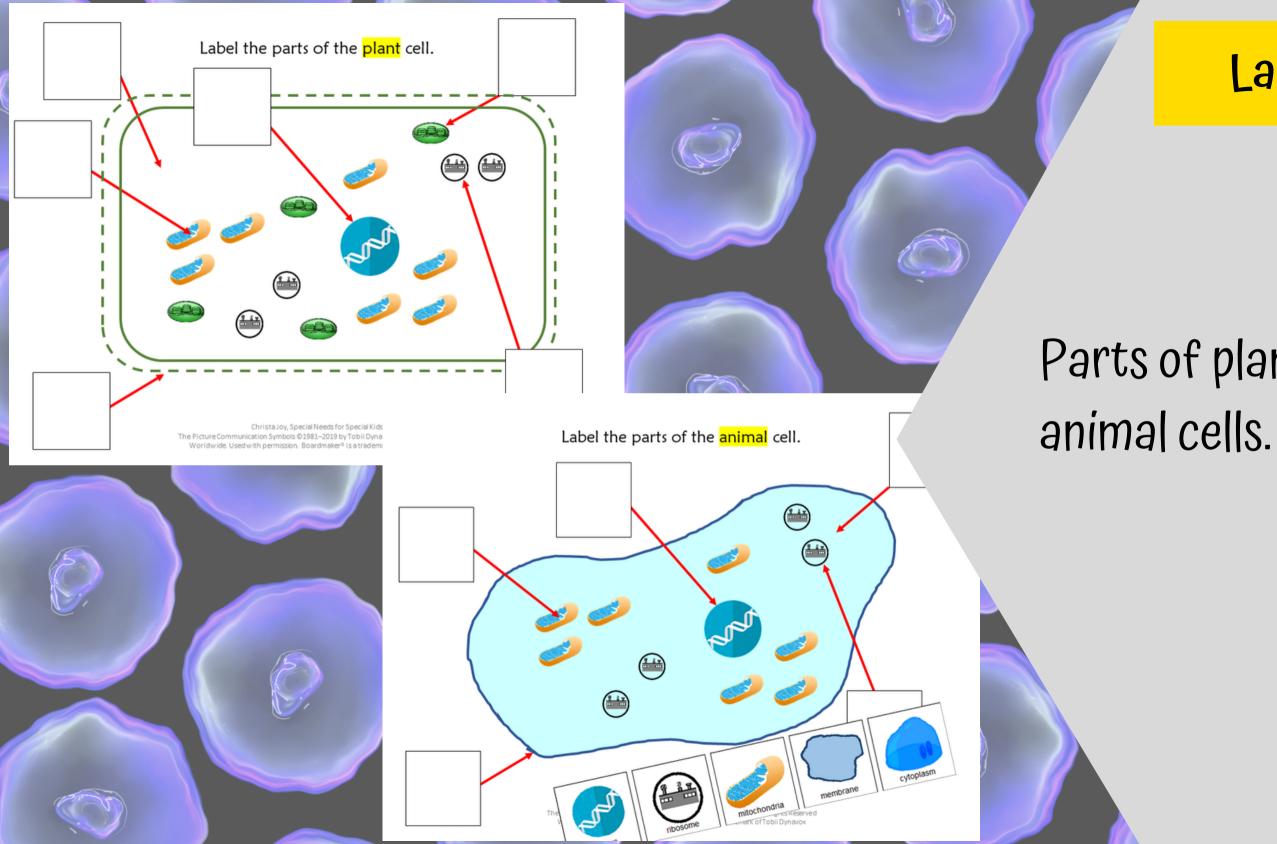
Christa Joy, Special Needs for Special Kids The Picture Communication Symbols @1981–2019 by Tobii Dynavox. All Rights Reserved Worldwide. Used with permission. Boardmaker® is a trademark of Tobii Dynavox There are activities organelle the funct organelle different

- There are matching
- activities. Matching the
- organelle to its function and
- the function to the
- organelle. Suggestions for
- differentiation are included.



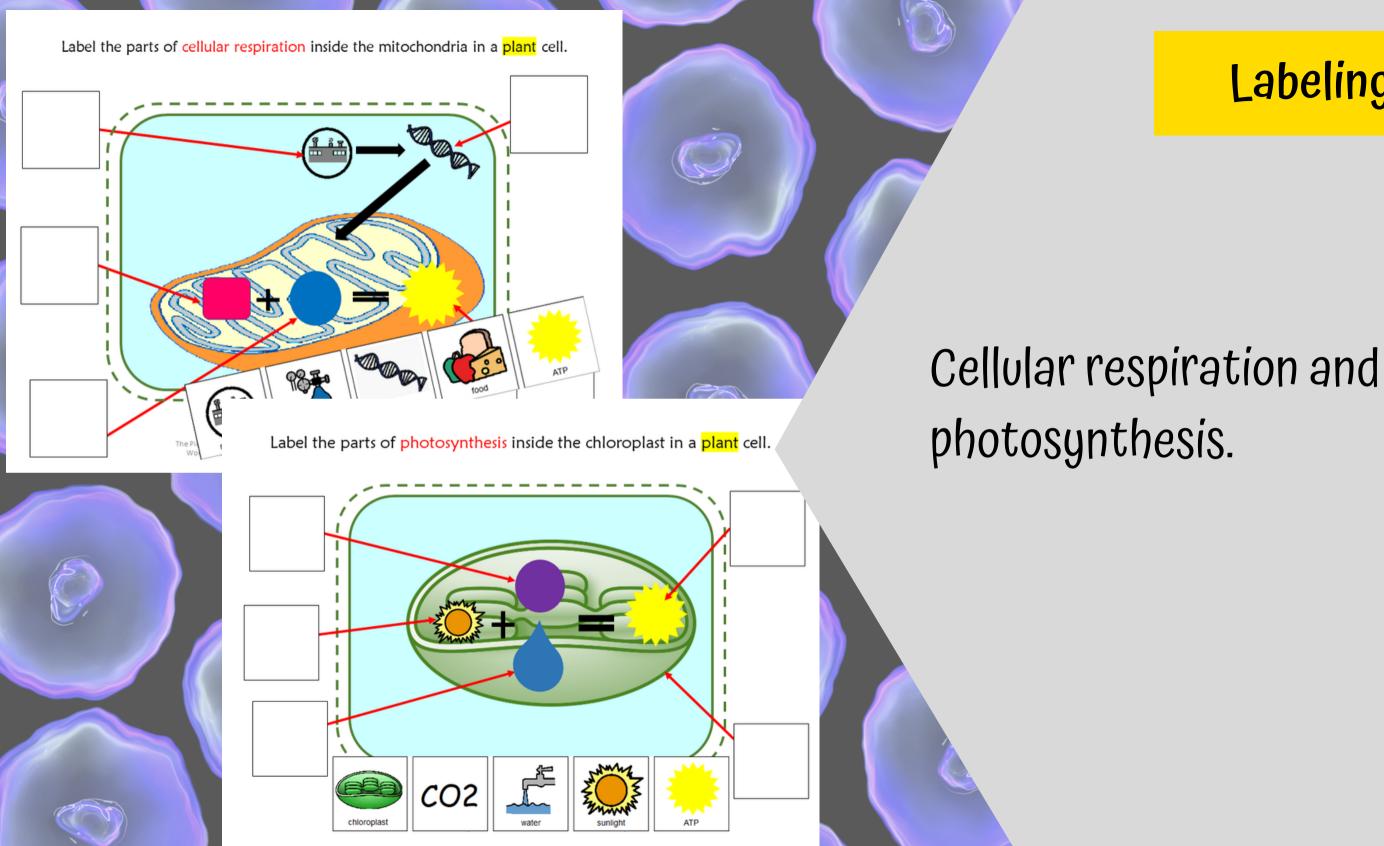
Christa Joy, Special Needs for Special Kids The Picture Communication Symbols @1981-2019 by Tobii Dynavox. All Rights Reserved Worldwide, Used with permission, Boardmaker® is a trademark of Tobii Dynavox

There is a sorting activity looking at things that are and are not organelles. Suggestions for differentiation are included





Parts of plant and





3D Model of a Plant Cell: Directions

Materials:

- Cell membrane: long piece of yarn
- Cell wall (if doing a plant cell): Hula hoop
- Ribosomes: ping pong or other small ball
- Mitochondria: Legos
- Chloroplasts (if doing a plant cell): Green bean bags
- Nucleus: Pink ball
- Cytoplasm: Piece of yellow felt or fabric cut to fit the interior of the hula hoop
- Proteins: plastic links (Several connected together)

Directions:

- · Give each student a piece of the cell; can/should have multiple chloroplasts, mitochondria, and ribosomes
- · Have students form the piece of yarn into a circle as the cell membrane.
- If doing a plant cell: Have student place hula hoop on floor. Explain that this is the cell wall. Notice how strong, rigid, and hard it is. It helps keep the shape of the cell and keeps all the parts inside.
- Have student fit the yellow felt inside the hula hoop. Explain that this is the cytoplasm and makes a nice cushion for all the parts inside the cell. It is like a big pillow.
- Have student place pink ball in the center of felt. Explain that this is the nucleus of the cell. It is like the brain, and tells all the other parts in the cell what to do. Every cell has a nucleus.

Making a Cell Pizza (Sweet)

Materials

- Crescent dough or premade large cookie (cooked)
- Frosting
- Chocolate chips
- Jelly beans
- Green skittles or M&Ms
- 1 Oreo

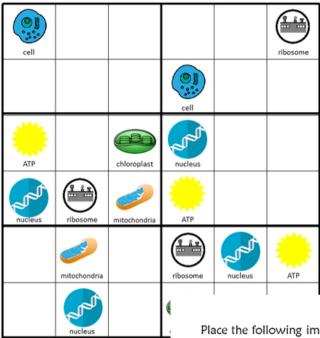
Directions

- Cell membrane/wall
 - Have students spread crescent doug'
 - Talk about how the crust is like the ce.
 - Provides stiffness/structure
 - · Holds all the inner parts of the cell
- Cytoplasm
 - o Spread the frosting
 - Talk about how the frosting is similar to the cyt.
 - Provides cushion
 - Helps holds inner structures in place
- Organelles
 - Use chocolate chips for the ribosomes
 - Use jelly beans for the mitochondria 0
 - Use green skittles or M&Ms as chloroplasts
 - Talk about how they are like the organelles
 - Uniform in size and shape
 - Spread throughout the cytoplasm and cushioned
- Nucleus
 - Place whole Oreo in center of pizza as nucleus
 - o Talk about how the Oreo is similar to the nucleus
 - Only one present in the cell
 - Round

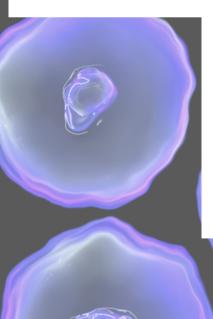
cell.

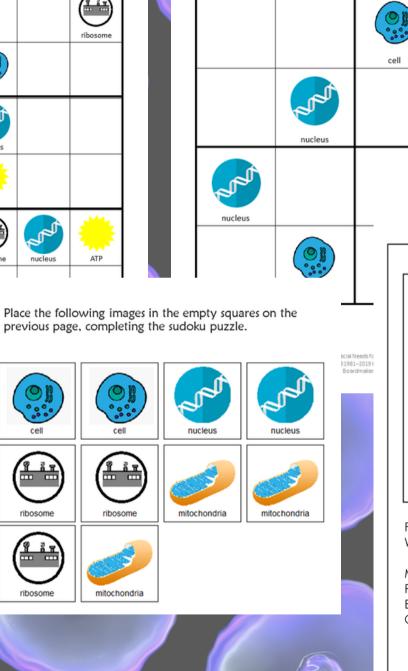
- There are 2 hands-on activities. One has students make a 3D model of a plant cell, and one has students
- make an edible pizza

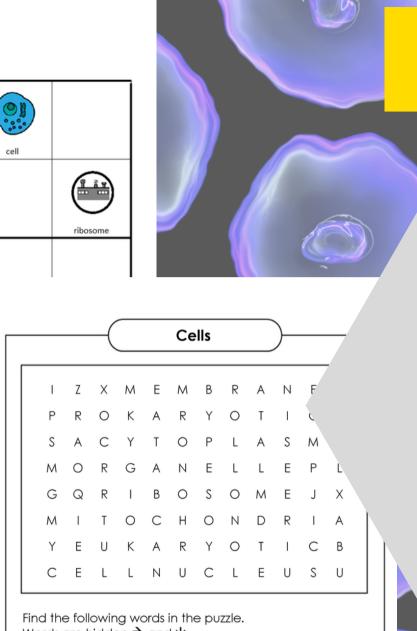




Christa Joy, Special Nee The Picture Communication Symbols @1981-20 Worldwide, Used with permission, Boardm







Words are hidden \rightarrow and \checkmark .

MITOCHONDRIA	ORGANELLE	CELL
PROKARYOTIC	MEMBRANE	WALL
EUKARYOTIC	ribosome	
CYTOPLASM	NUCLEUS	

Cells

Vocabulary Puzzles

There are Sudoku puzzles and a word search. These are a great way to work with the new vocabulary!!

Cellular Respiration

and

cells.



2. It occurs in the

- 3. It is how the cell turns
- 4. Mitochondria need
- into energy. from the ribosomes to help. 5. The food is combined with to make ATP.
 - proteins oxygen mitochondria plant anima
- for review. • Cells

There are 3 close worksheets

• Cellular respiration • Photosynthesis

Version 1

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





2. A cell wall is an extra outer layer found only in:





3. The brain of the cell is the:



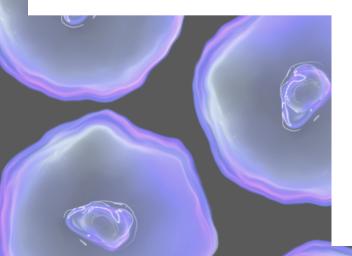


4. Which cells do NOT have a nucleus?

5. What are cells filled with that protect what



Christa Joy, Special Needs for Special Kid The Picture Communication Symbols @1981-2019 by Tobii Dyna Worldwide. Used with permission. Boardmaker® is a tradem

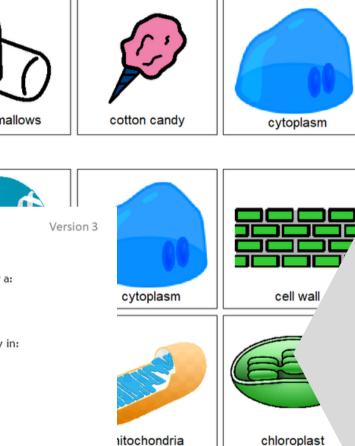


		marshmallows	cotton candy
		Q 6	
		Versi	ion 3
1.	All plant and animal cells are s	urrounded by a:	
	A. yarn B. membrane		cytoplasm
	C. fence		
2.	A cell wall is an extra outer lay	ver found only in:	
	A. animals		
	B. plants		
	C. octopus		
3.	The brain of the cell is the: A. nucleus		
	B. cytoplasm		nitochondria
	C. cell wall		intocrionaria
4.	Which cells do NOT have a nu	icleus?	ta Joy, Special Needs for Special Ki Symbols © 1981–2019 by Tobil Dyr
	A. prokaryotic		ermission. Boardmaker® is a trade
	B. skin		~
~	C. tongue		
5.	What are cells filled with that A. marshmallows	protect what is inside?	
	B. cotton candy		
	C. cytoplasm		
6.	Circle all the things that are co	nsidered organelles.	
	A. nucleus D. riboson	ne	
	B. cytoplasm E. mitocho		
	C. cell wall F. chlorop	ast	

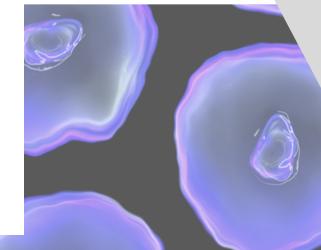
Christa Joy, Special Needs for Special Kids The Picture Communication Symbols @1981–2019 by Tobii Dynavox. All Rights Reserved Worldwide, Used with permission, Boardmaker® is a trademark of Tobii Dynavox

Version 2

Print onto cardstock or mount on index cards. Cut pictures apart and show student answer choices for each question. Q 5



yn avox. Al I Rights Reserved emark of Tobii Dynavox



are 3 versions.

- cut out the answer choices and glue them on index cards

Answer key included.

- traditional multiple choice
- choices for each question
- 10 questions with 3 picture
- FINALLY the assessment!! There

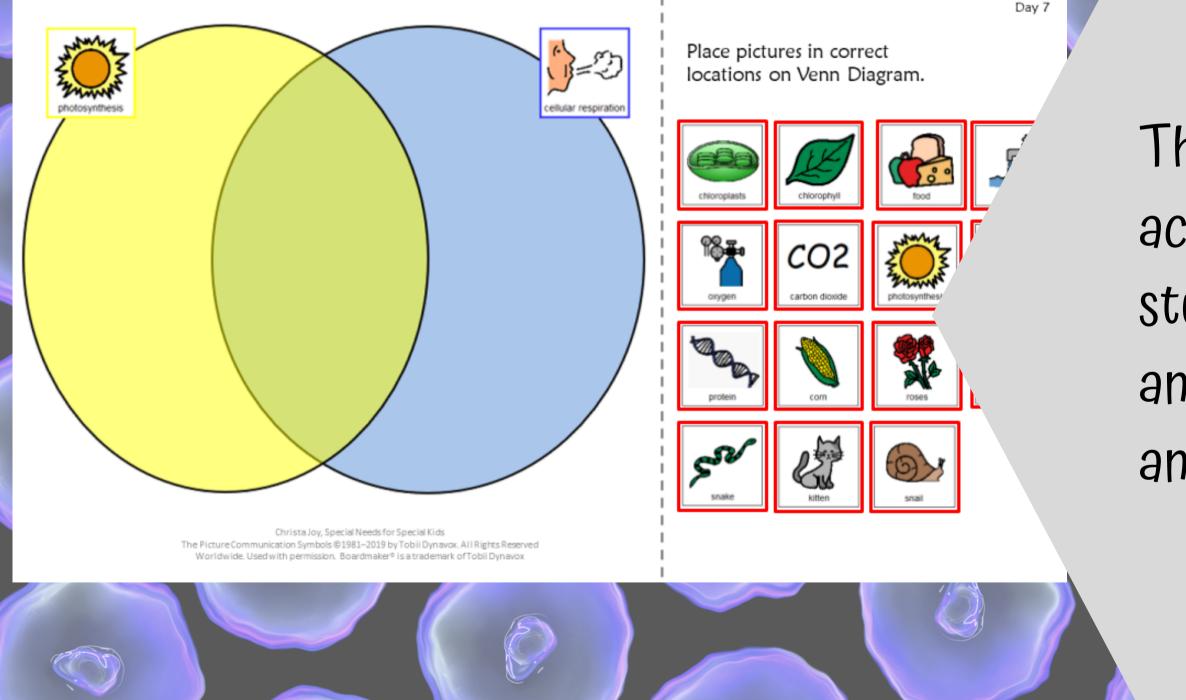
Watch the movie on Cells and Cell Processes Ribosomes are like tiny factories that make something called proteins.



This unit also has digital activities. There is a movie version of the books students can listen to read aloud.

Christa Joy, Special Needs for Special Kids

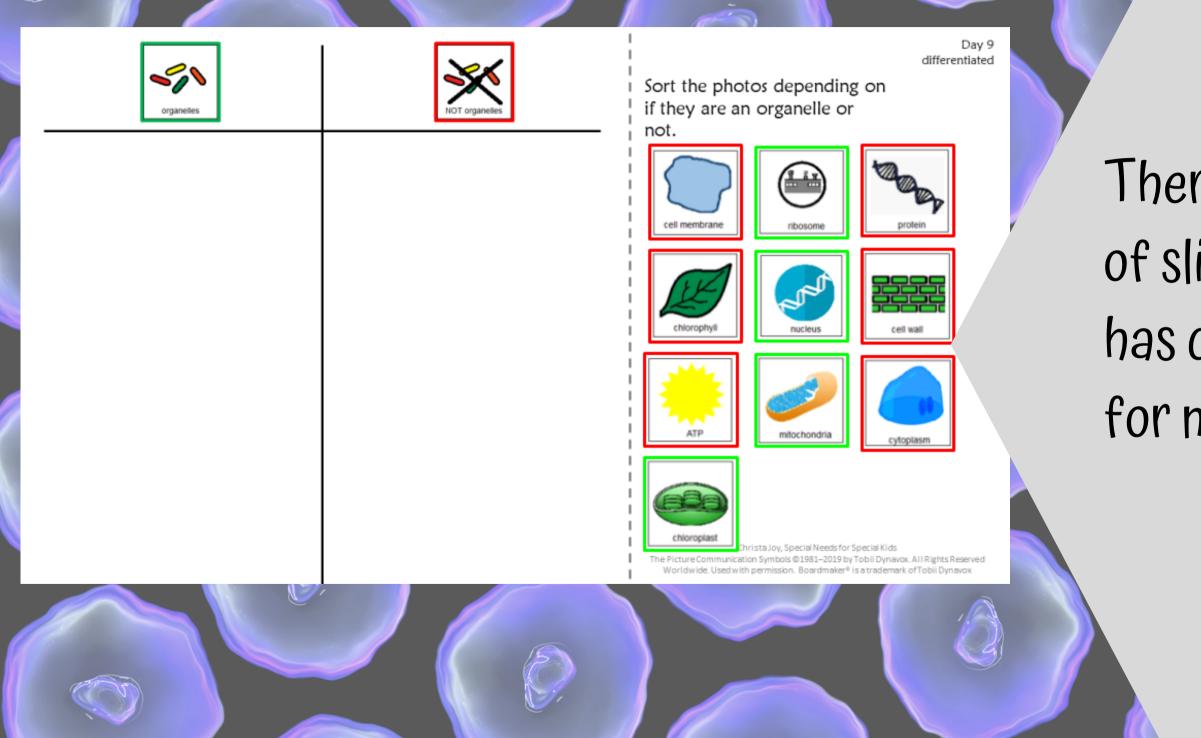
Great for review





The digital activities have students click and drag their answers.

Perfect for every learning level





There are 2 sets of slides. One set has color-coding for more support.