



INCLUDES GOOGLE SLIDES



Why you need this curriculum:

- If you teach multiple grade levels, you have all you need in one place.
- Having the same layout for each unit reduces students' anxiety and allows them to focus on the content.
- Aligned with extended learning standards.
- Saves you money
- Saves you time.

This bundle includes 5 units that cover more advanced Biology concepts.

- The Nucleus (2 weeks)
- Mitochondria (2 weeks)
- Ribosomes (2 weeks)
- Chloroplasts (2 weeks)
- Punnett Squares (2 weeks)

All units have printable AND digital versions

All units built using the extended learning standards.

All the units contain various activities. Most units include:

- Detailed lesson plans
- A book
- Vocabulary cards
- Circle maps
- Sorting activities
- Labeling and sequencing activities
- Hands on activities
- Vocabulary puzzles
- Close worksheets (fill in the blank)
- Assessments (3 versions)

The activities are differentiated to allow more students to participate in the same activity.

- Saves you time
- Fosters inclusion

Table of Contents

Pages	Activity		
4-5	Vocabulary board		
6-9	Vocabulary cards		
10-19	Vocabulary cut and paste		
20-23	Circle maps		
24-29	Match functions to parts of nucleus		
30-32	Labeling parts of nucleus		
33-37	Cloze worksheets		
38-48	Assessment		
49-50	Terms of Use		

Also included in this resource as separate files:

- · Lesson plans
- · Links and directions to digital activities
- PowerPoint (this is the book in the lesson plan)
- · Voice recorded PowerPoint
- · Activities in black and white

Christa Joy, Special Needs for Special Kids

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Table of Contents

Pages	Activity		
4-5	Vocabulary board		
6-9	Vocabulary cards		
10-19	Vocabulary cut and paste		
20-26	Circle maps		
27-32	Match functions to parts of chloroplast		
33-35	Labeling parts of chloroplast		
36-39	Ins and outs of photosynthesis (easy)		
40-43	Labels steps of photosynthesis in chloroplast		
44-48	Cloze worksheets		
49-59	Assessment		
60-61	Terms of Use		

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Every unit has lots of different activities and ways for students to practice that skill.

Day 5

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>Bean Bag</mark> Toss (10 minutes)	 Glue the cut apart symbols to the paper plates (one on each plate) Arrange them around the room Students toss the bean bag trying to get it to land on a paper plate Students retrieve the paper plate and share the vocabulary card they retrieved 	 Vocabulary cards Vocabulary cards cut apart Small paper plates (you can also use pieces of construction paper) Bean bags
Sequencing activity review (5 minutes)	Review the sequencing worksheet completed yesterday	Completed worksheet
Sequencing activity (10 minutes)	 Do the sequencing activity on cellular respiration in plant cells There are 2 versions (use the version you don't use for review if needed prior to assessment) Version 1 has more picture symbols to support students Version 2 has students complete the cycle with much less support Make connections to the book as necessary 	 Sequencing 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

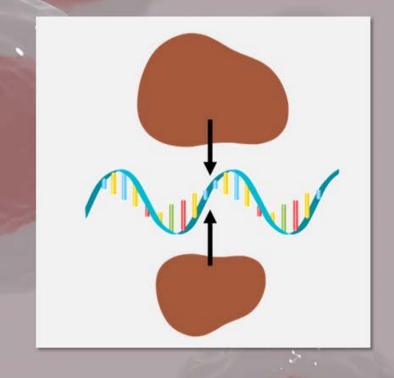
Lesson plan

Every unit has a detailed lesson plan with:

- suggestions
- overview
- daily step-by-step guide

Book

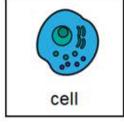
Initiation is the first step and it starts when the 2 subunits of the ribosome join together with the mRNA from the nucleus. They form a sandwich with the mRNA in the middle.



Every unit has a book with simple text and engaging photos. It comes in:

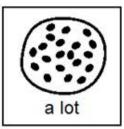
- PowerPoint
- recorded PPT show
- mp4 (movie) file

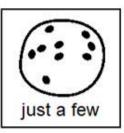
Vocabulary

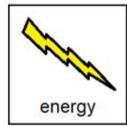


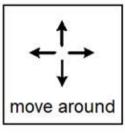




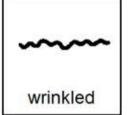


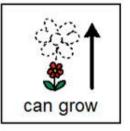


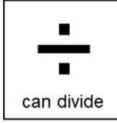






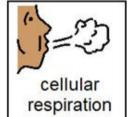


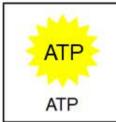


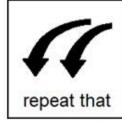


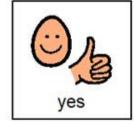


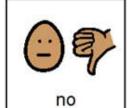
















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Every unit has a vocabulary board to use while working through the unit. Suggestions for use are included.

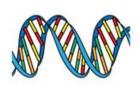
transcription

The messages the RNA is given in the nucleus and will carry to the ribosomes.



DNA

The genetic code that tells the cell what type of cell it should be.



translation

Transferring the message from the RNA to the ribosomes so proteins can be made.



RNA

Copy of the code from the DNA that it takes to the ribosomes as a building block to make proteins.



Vocabulary

stroma	thylakoids
chlorophyll	grana

Every unit has vocabulary cards.

There are suggestions for daily group activities to review these.

chloroplasts

Organelle that turns food into energy the cell can use. Powerhouse of the cell.



organelle

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



outer membrane inner membrane

Smooth outer surface of chloroplast that protects it.

Membrane inside holes and allows



Membrane inside the chloroplast that has holes and allows things in and out of the chloroplast.



chloroplasts

Organelle that turns food into energy the cell can use. Powerhouse of the cell.



outer membrane

Smooth outer surface of chloroplast that protects it.



organelle

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

inner membrane

Membrane inside the chloroplast that has holes and allows things in and out of the chloroplast.



Errorless version

Cut apart pictures and place in circle map about chloroplasts.





















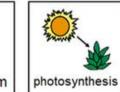


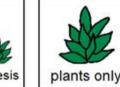
Christa Joy, Special Needs for Sp

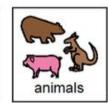
The Picture Communication Symbols @1981-2019 by T Worldwide, Used with permission, Boardmaker® is Cut apart pictures and place in circle map ONLY IF they relate to chloroplasts.

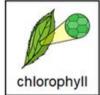


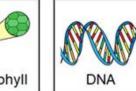


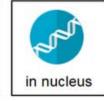






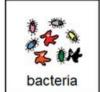














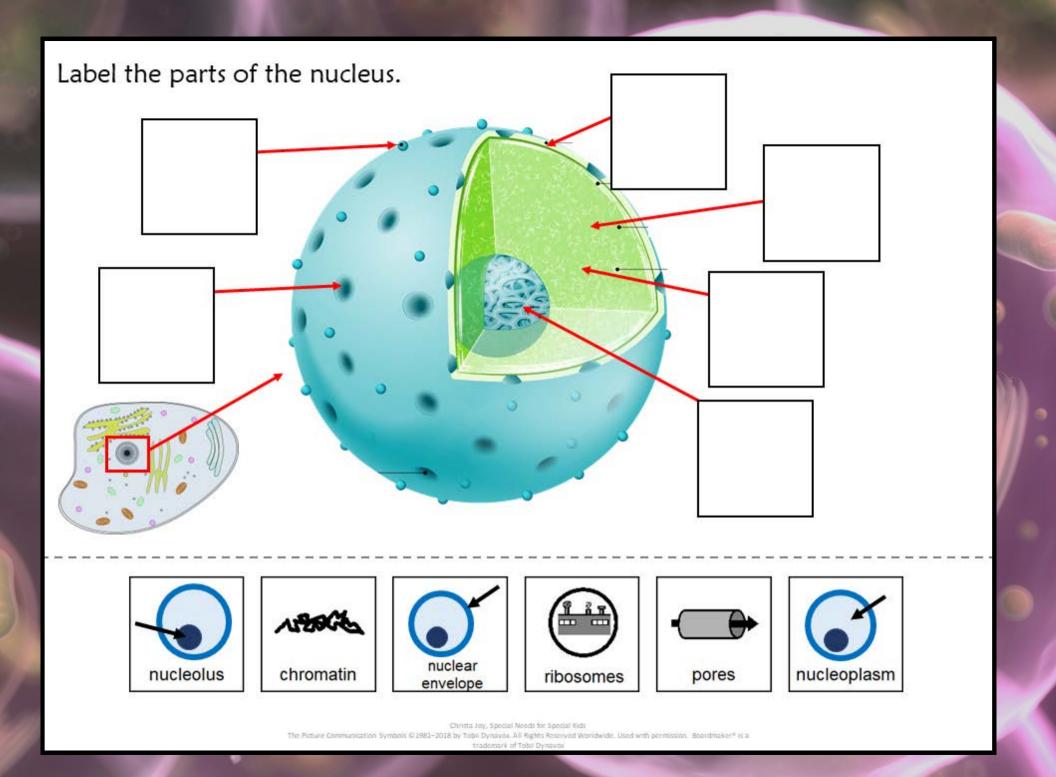






circle maps

Each unit comes with 1-2 circle maps to visually review the main facts from the book. These come with an errorless option and an option with wrong answers mixed in.



Labeling Activities

Decode the message. Look at the long list of amino acids and using the key to read each codon, decode the secret message. (This is just for practice, and does use real amino acids but does not match what the actual codons mean to the ribosome.)

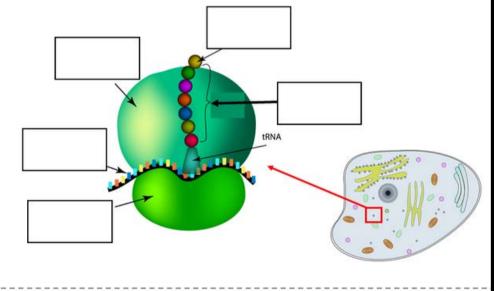
- Make sure to look for AUG (start codon) in each line. Start here and ignore all codons before it.
- Make sure to look for UGA (stop codon) in each line. This is where the message for that line stops.

1.	AUG	CUG	UUC	CUA	CGA	CAA	CUU	ACU	UCA	UGA
Ī										

2.[AUG	GCG	AGA	AAG	GAG	CCG	UUA	CUU	GGG	UGA

3. AGA AUG GGU AGA ACA GUU AGC UUC AGG UGA

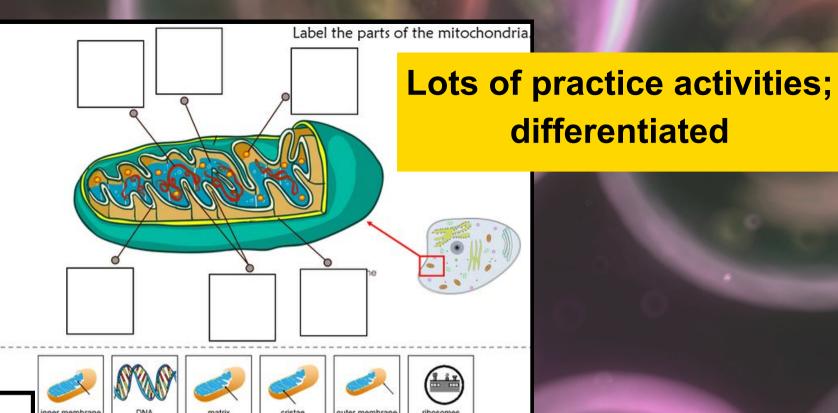
Label the parts of the ribosome.



Large subunit	mRNA	Amino acids	Growing protein	Small subunit
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Decoder Key: AUG is where the message starts in each line. It does not correspond to a word. Students will ignore any codons that come after it.

WORD	
Start message	
birthday	
watch	
you	
object	
day	
teachers	
danger	
this	
will	
one	

CODON	WORD
UGG	scientist
CGA	tonight
CUU	an
CAA	for
AGA	of
UUC	the
AGG	cafeteria
AAG	your
GUA	wish
GGG	imposter
GUG	come

CODON	WORD
ACU	unusual
GAA	amazing
GGU	beware
CUA	sky
AGC	in
CCG	could
CGC	year
UUA	be
UCC	true
GUU	lurking
UGA	Stop message

Nucleus

1. The nucleus is located in the of the cell.

2. There is normally only nucleus per cell.

3. The nucleus acts like the of the cell.

4. The nucleus is the in plant and animals cells.

5. The surrounds and protects the nucleus.











Review sheets

Ribosomes

Ribosomes are located in the of the cell.

2. Ribosomes are made in the of the cell.

3. Most cells have of ribosomes.

4. The ribosomes make for the cell.

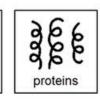
5. Ribosomes are made up of subunits.











All units include fillin-the-blank
worksheets to review
concepts covered in
the book and unit.
Answer keys
included.

1. All eukaryotic cells have one:







2. The nucleus is the

of the cell.







3. What surround the nucleus to keep things out?







4. Where are RNA and ribosomes made?







5. What is the resting form of DNA called that is stored in the nucleus?







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Assessment



Version 3

- 1. All eukaryotic cells have one:
 - A. Ribosome
 - B. Organelle
 - C. Nucleus
- 2. The nucleus is the _____ of the cell.
 - A. Muscle
 - B. Brain
 - C. Heart
- 3. What surround the nucleus to keep things out?
 - A \X/al
 - B. Nuclear envelope
 - C. Fence
- 4. Where are RNA and ribosomes made?
 - A. Chromatin
 - B. In pores
 - C. Nucleolus
- . What is the resting form of DNA called that is stored in the nucleus?
- A. Ribosomes
- B. Nucleoplasm
- . chromatin
- 5. What allows the ribosomes to travel out of the nucleus?
 - A. Pore
 - B. Chromatin
 - C. RNA

Finally, each unit has an assessment that is available in 3 versions. These are given 1:1 and read aloud to the student. It also includes a traditional multiplechoice version included.

All of these units include digital versions of the activities.
 These simply require the student to click and drag the answers. There is no drawing or typing involved.

 There are 2 complete sets of slides. One set is differentiated using color.

Make great independent learning centers.

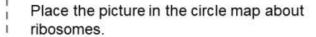
Ribosomes are like tiny factories that make something called proteins.

Watch the movie on Cells and Cell Processes



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The movie version of the book from the unit.







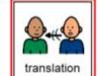












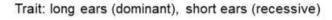












Mom has the genotype Ee

Dad has the genotype Ee.

	E	е
Е	EE	Ee
е	Ee	ee

- 1. Color in the offspring that have long ears green.
- 2. Color in the offspring that have short ears red.
- 3. How many offspring have long ears?
- 4. How many offspring have short ears?

Look at the Punnett Square and answer the questions at the bottom.

Type the answers in the blue boxes.





The digital activities are click and drag.

Use for more review.

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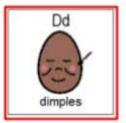
Perfect for any learning level.





Sort traits into correct column depending if they are dominant or recessive when you look at the genotype. If you are not sure, place it on the middle line.



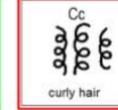






















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Each unit comes with a set of slides that are differentiated with color.

Still have questions?

Reach out at specialneedsforspecialkids@gmail.com

I will answer your question personally and promptly.

