10 UNITS 23 WEEKS COMPLETE BIOLOGY BUNDLE



print & digital

SPECIAL EDUCATION

Special Needs for Special Kids

This bundle includes resources created for students with significant challenges (like autism and ID) who were several years behind their peers. This is a great way to expose all students to the same curriculum their peers are following.

This bundle includes 8 units that are typically taught in high school. It includes:

- Levels of Organization (3 weeks)
- Cells and Cell Processes (3 weeks)
- Cell Transport (2 weeks)
- The Nucleus (2 weeks)
- Mitochondria (2 weeks)
- Ribosomes (2 weeks)
- Chloroplasts (2 weeks)
- Mitosis and Meiosis (3 weeks)
- Genes and Heredity (2 weeks)
- Punnett Squares (2 weeks)

All units have printable AND digital versions

All units built using the extended learning standards from Ohio.

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

KEEP SCROLLING FOR ALL THE DETAILS

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 The Picture Communication Symbols ©1981–2018 by Tobii Dynavox. All Rights Reserved Worldwide. Used with permission. Boardmaker® is a trademark of Tobii Dynavox



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				

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

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

Genes and Heredity Lesson Plan

Preparation

- · Print out a vocabulary board for each student to use throughout unit Laminate or place in page protector
- Book
 - 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
 - Make one set for each student and also one for the teacher to use in games

Day 2

Activity

Read or listen

to a recording

of the book

(10 minutes)

Circle map

(5 minutes)

Circle Map

(10 minutes)

review

Sharing

(10 minutes)

- Preassessment (do day 1 before starting lesson)
- Choose the form of the assessment that best fit
- Give the assessment to assess what your studen ٠
- I cannot emphasize enough how important this growth, this preassessment is so important!!

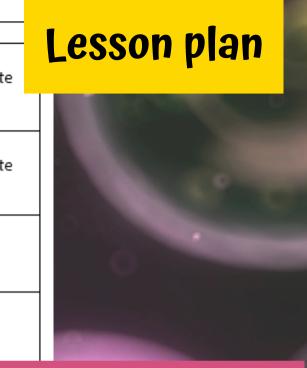
Teaching Tips

- Vocabulary Color Coding: this is a really easy way to add cards | Spy activity. Outline or color in an empty box or s Game the corresponding picture symbols the same co (10 minutes) task.
 - a. For more info, read more here: https://specialneedsforspecialkids.org/20 differentiation/
 - b. I also have a blog post on differentiating https://specialneedsforspecialkids.org/20 3-ways-easily-and-effectively/
- Make you own copies of the activities: Every (vesterday. For that reason:
 - a. 1 often complete the activity myself and that I could use year after year.
 - b. My copies were also helpful as either a : more support or as a way for more adv work.



Quick Look

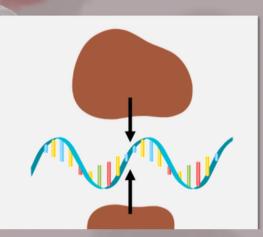
							_		I
			Day		Ac	tivity		Day	Activity
n	it		1	 Book Vocab ca Circle m 		s introduction		7	 Book Vocab cards cut and paste Word search
			2	 Book Vocab control Circle m 		s activity		8	 Book Vocab cards cut and paste Sudoku puzzle
t	ou	se in 1 Spy	3	BookVocab ci	ard	s activity		9	 Book Vocab cards activity Close worksheet
		Not				Materials			Book
		Read through the stor questions Continue to make cor book and vocabulary	nnection	-		Book Vocabulary board		10	 Vocab cards activity Close worksheet
	•	l play this game, or va few days o Determine how students can ha	ariations v many (cards your	•	Vocabulary cards (student set and teacher set)		11	 Assessment Make editable DNA
	•	Since this is the first tin make it easy. Hold up students find the mate up	p a card	, and have	•	Vocabulary board			de
	•	o You can also p manner having on their vocab	lay this g them fi	game in this nd the symbol				y	W
	•	Review the circle map			•	Circle map completed yesterday			
	:	Do the circle map abo Choose the best version depending on the least students	on (erro rning lev	rless or not) vel of your	•	Circle map Scissors Glue			d
	•	Students cut out symb map Make connections to							
	•	Each student shares th with the group using t method of their choic	the com		•	worksheet Communication			
						devices			



Every unit has a etailed lesson plan vith suggestions, a quick look, and a laily step-by-step guide.

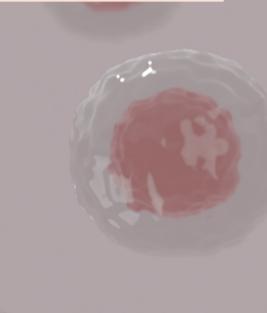
Initiation is the first step and it starts when the 2 subunits of the ribosome join together with the mRNA from the nucleus. They form a sandwich with the mRNA in the middle.

Book



The nucleus is surrounded by a nuclear envelope. This envelope is made up of 2 layers and protects the nucleus from other things floating in the cytoplasm. It also keeps important structures inside the nucleus.

CELL NUCLEUS



Every unit has a book with simple text and engaging photos. This book walks through the process and what students need to know to complete the problems in the unit. It comes in a pdf, recorded PowerPoint show, and an mp4 file.

@Christa Iov SNS

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.



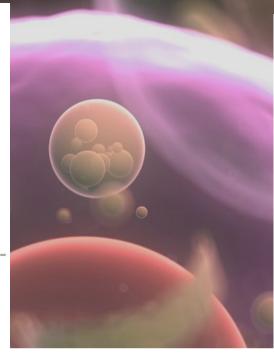
translation

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.



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.



cell	animal	
brain	cytoplasm	
energy	simple	
"		

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.



Vocabulary

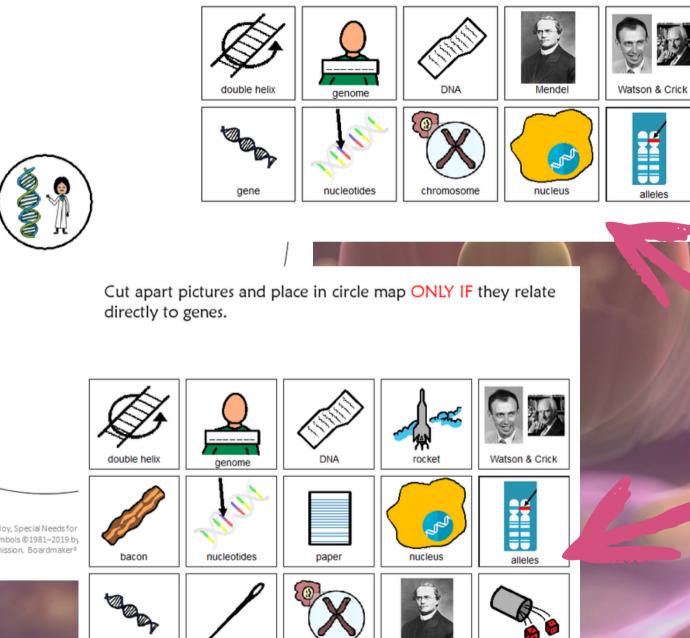


Dynavox. All Rights Reserved Idemark of Tobii Dynavox



Errorless version

Cut apart pictures and place in circle map about genes.



roll dice

needle

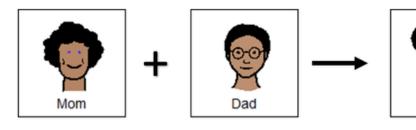
chromosome

gene

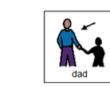
Christa Joy, Special Needs for The Picture Communication Symbols ©1981–2019 by Worldwide. Used with permission. Boardmaker®

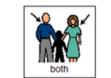
circle maps

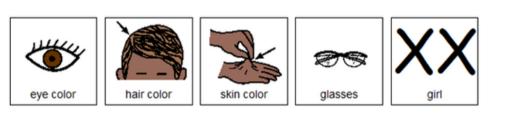
Each unit comes with 1-2 circle maps to visually review the main facts from the book. These come with an errorless option and an option with wrong answers mixed in.







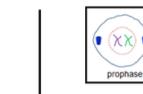




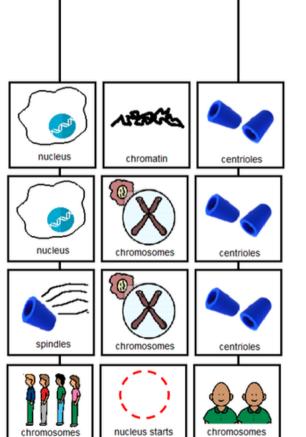
Christa Joy, Special Needs for Special Kids The Picture Communication Symbols @1981-2019 by Tobii Dynavox. All Rights Reserved Worldwide. Used with permission. Boardmaker® is a trademark of Tobii Dynavox







interphase

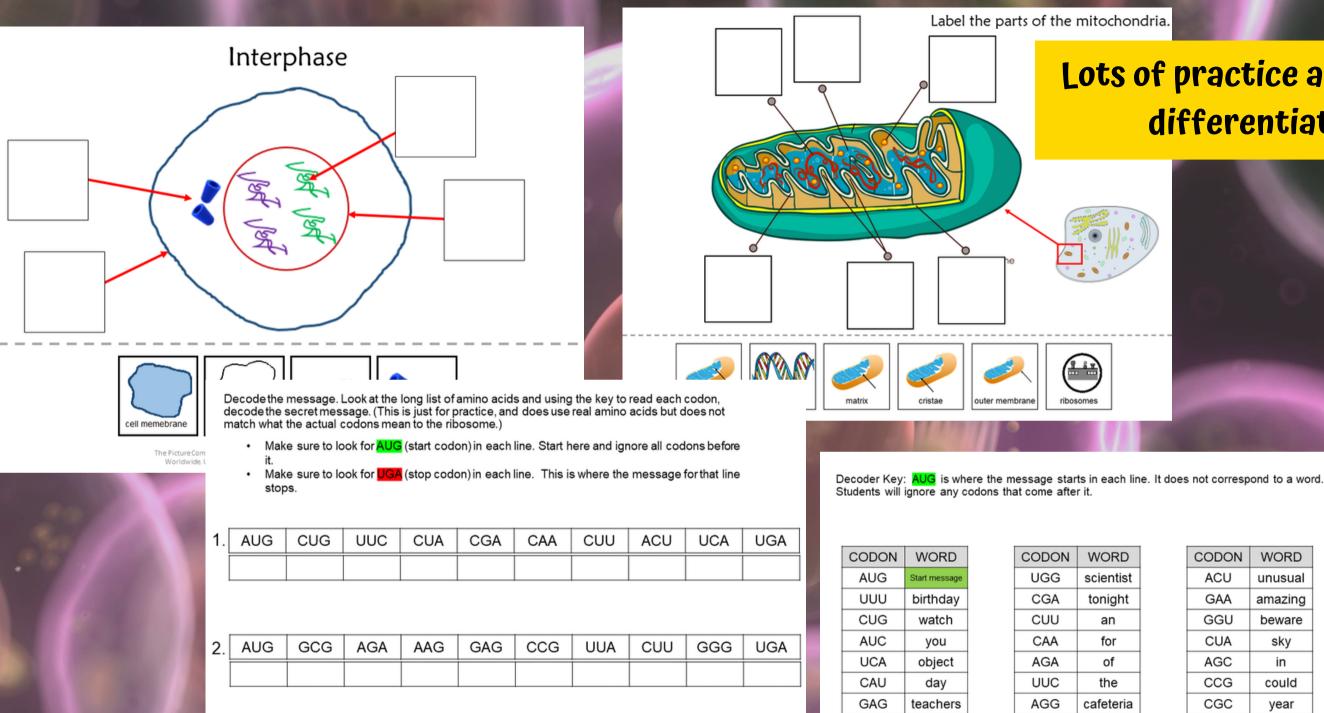


metaphase

chromosomes to dissolve double line up 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

sorting

Most units have sorting activities. There are suggestions for how to differentiate these quickly included.



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

your

wish

imposter

come

AAG

GUA

GGG

GUG

ACA

AAA

UGU

GCG

danger

this

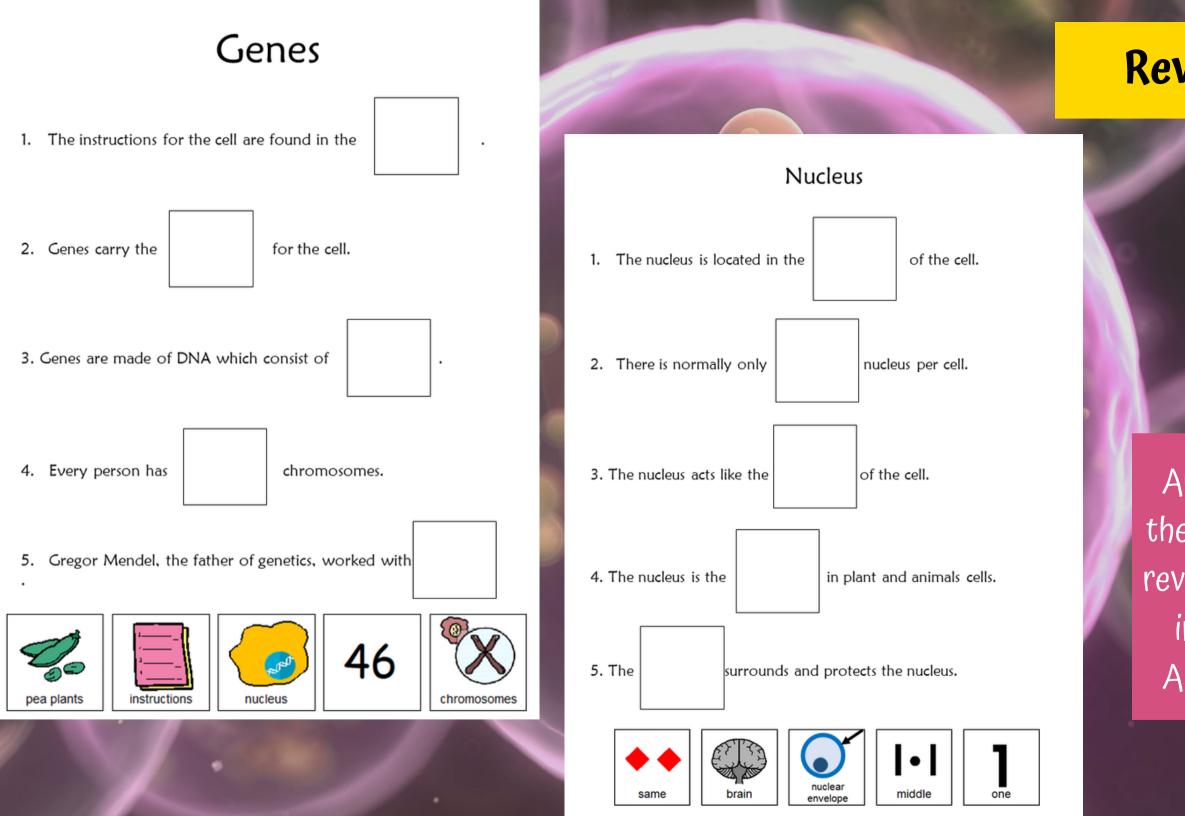
will

one

© ChristaJoy, SNSK

Lots of practice activities; differentiated

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



Review sheets

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

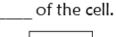
Version 1

1. All eukaryotic cells have one:





2. The nucleus is the



heart





3. What surround the nucleus to keep things out?

5/1

organelle

brain

nuclear





- 4. Where are RNA and ribosomes made?





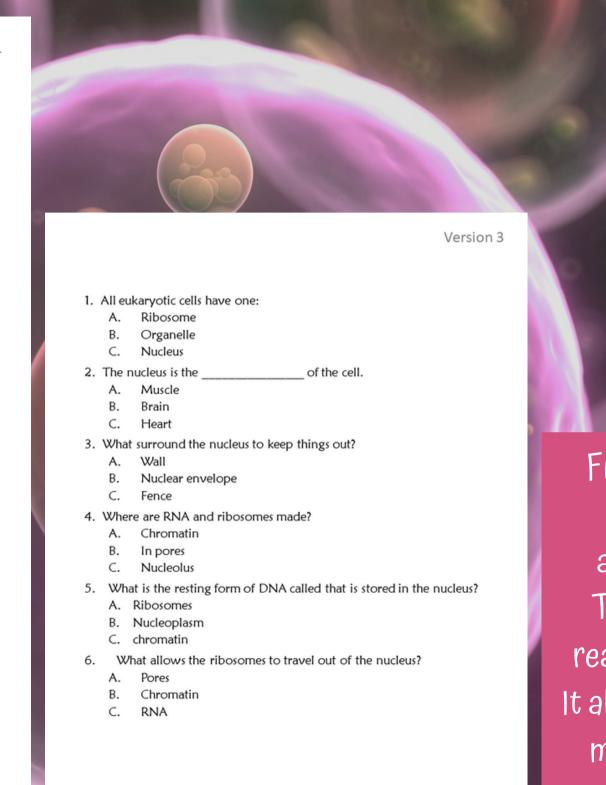


fence

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



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



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

Assessment

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 multiple-choice 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.

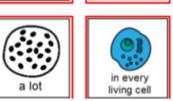
Watch the movie on Cells and Cell Processes Ribosomes are like tiny factories that make something called proteins.



Christa Joy, Special Needs for Special Kids

The movie version of the book from the unit. Place the picture in the circle map about ribosomes.





Trait: long ears (dominant), short ears (recessive)

Mom has the genotype Ee

1 i 1

ibosomes

Dad has the genotype Ee.

	Е	е
E	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?

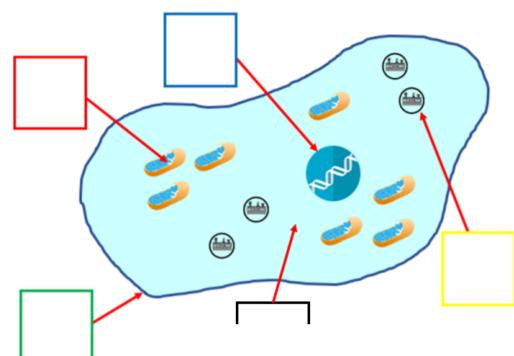
Look at the Punnett Square and answer the questions at the bottom.

Type the answers in the blue boxes.



Use for more review.

The digital activities are click and drag.



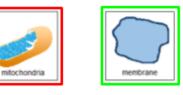
Label the parts of the animal cell.





Day 2

differ





Prophase





Day 4 differentiated

Label the structures involved in prophase during mitosis.









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

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