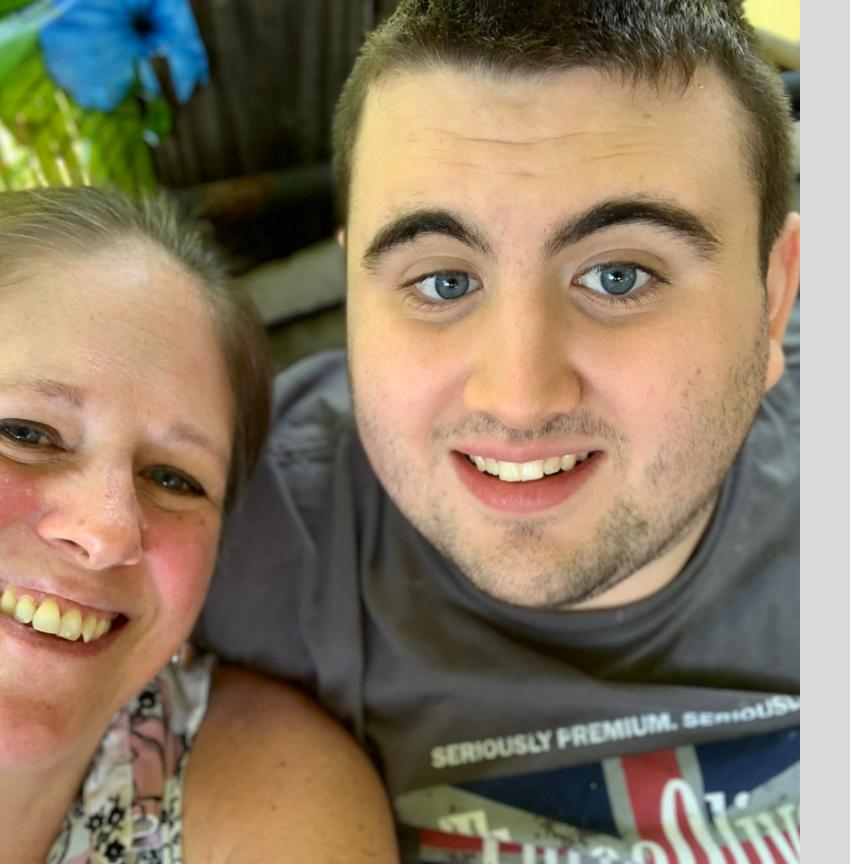
Specialky CHLOROPLAST

ALSO INCLUDES GOOGLE SLIDES

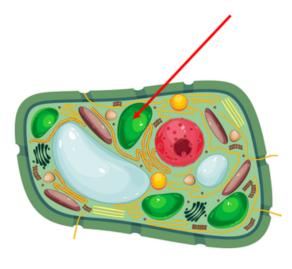
Special Needs for Special Kids



This unit was created with this guy in mind. He has autism and an intellectual disability. He is a nonreader, has a very short attention span, and struggles to sit still. With some support he is able to do this unit, and enjoys the challenge. He is my tester!! Color version

Organelles: Chloroplasts

By
Christa Joy
Special Needs for Special Kids



Christa Joy, Special Needs for Special Kids
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Table of Contents

7

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

This unit contains 9 days of material in print and digital formats. 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.

It comes in 2 separate files.

One in color and one in black and white.

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Chloroplasts 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
 - o 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

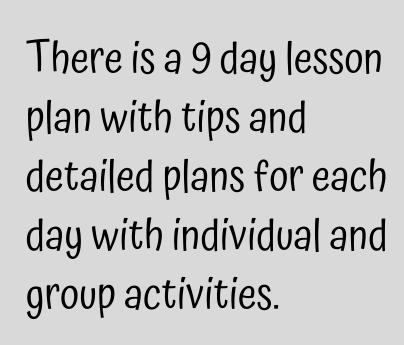
- . Color Coding: this is a really easy way to add more structure to a matching activity. Outline or color in an empty box or sorting label. Outline or color in the corresponding picture symbols the same colors. Becomes a color matching
 - a. For more info, read more here: https://specialneedsforspecialkids.org/2015/09/05/using-color-coding-for-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

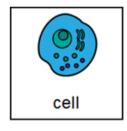


Activity	Notes	Materials
Read or listen to a recording of the book (10 minutes)	Read through the story, asking lots of questions Continue to make connections between book and vocabulary board	Book Vocabulary board
Vocabulary cards <mark>Bean Bag Toss</mark> (10 minutes)	Glue the cut apart symbols to 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 photosynthesis in the chloroplast Add color-coding for students who need more support. There is a color-coded version in the color activities.	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

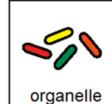
Quick Look

Day	Activity	
1	Book Vocab cards introduction Circle map	
2	Book Vocab cards activity Circle map	
3	Book Vocab cards activity Labeling activities	
4	Book Vocab cards activity Matching activities	
5	Book Vocab cards activity Sequencing activities	
6	Book Vocab cards activity Sequencing activities	
7	• Book	

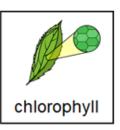


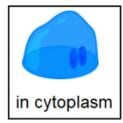


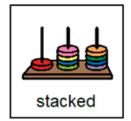




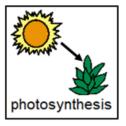


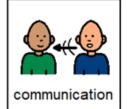




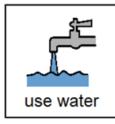


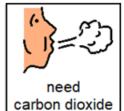


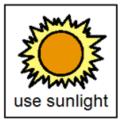


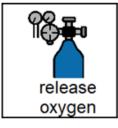


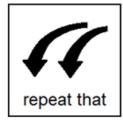


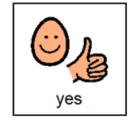


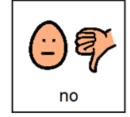


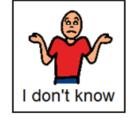














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This unit comes with a vocabulary board.

Vocabulary boards are great for ALL students to assist with participation and engagement in group discussions.

Tips on how to use in the unit!!

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.



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

Smooth outer surface of chloroplast that protects it.



inner membrane

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



outer membrane

Smooth outer surface of chloroplast that protects it.



inner membrane

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



stroma

thylakoids



















chlorophyll

grana

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

Stacks of thylakoids inside the chloroplast.





Sacks inside chloroplast that contain sigments (chlorophyll) responsible for making food for the cell.

Energy that is stored in the chlorophyll gotten from sunlight and used in photosynthesis.

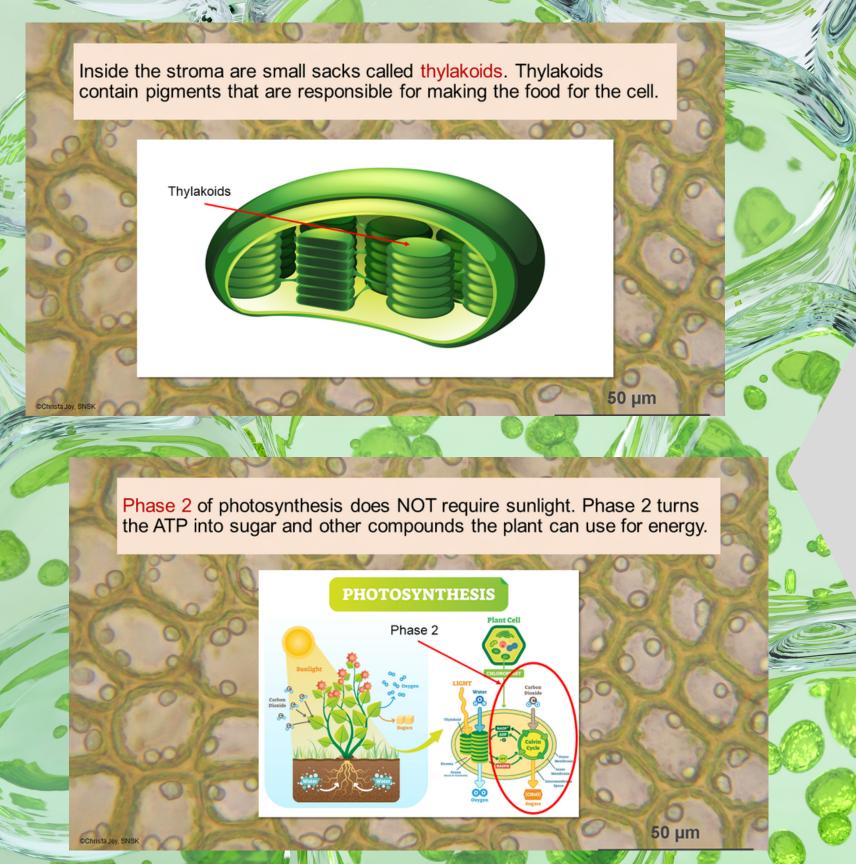
Holds grana in place to maximize the surface area.

Fluid that fills the chloroplasts and helps to keep things in place.

There are 12 vocabulary cards that come in color and black and white.

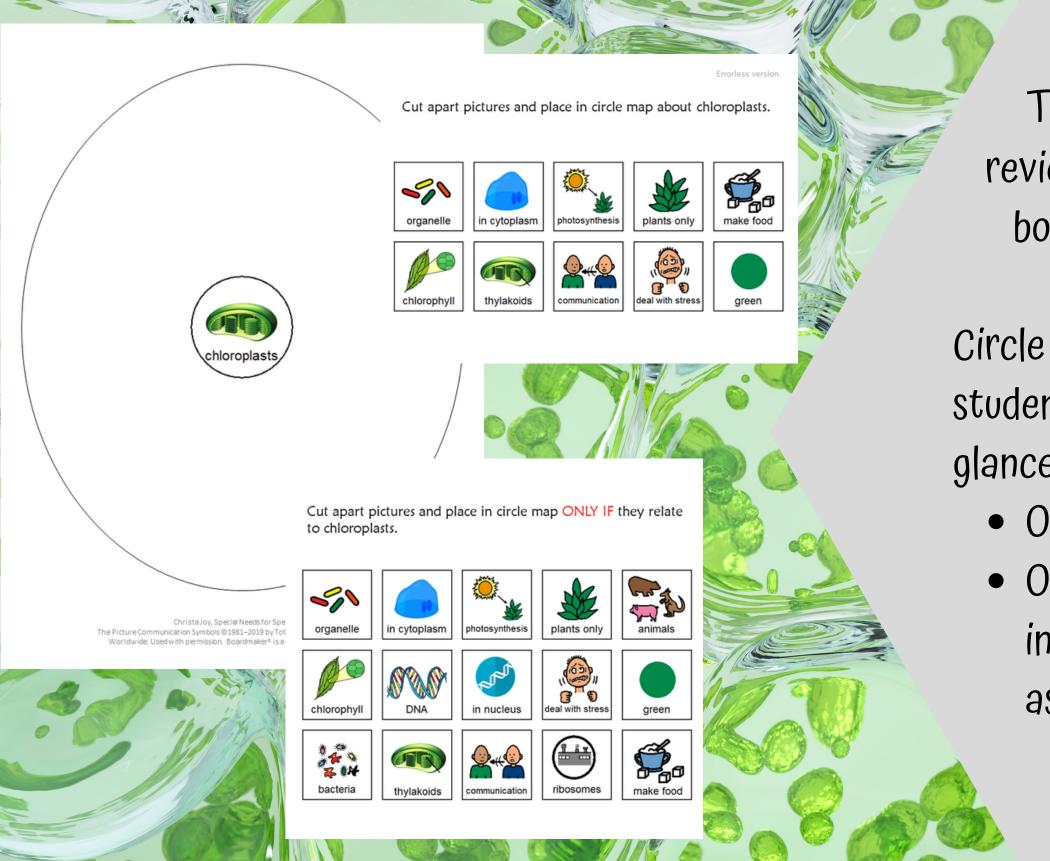
Included are suggestions for group activities to do with these each day.

There are also individual cut and paste activities included as well.



There is a 31-page book with simple text and engaging photos.

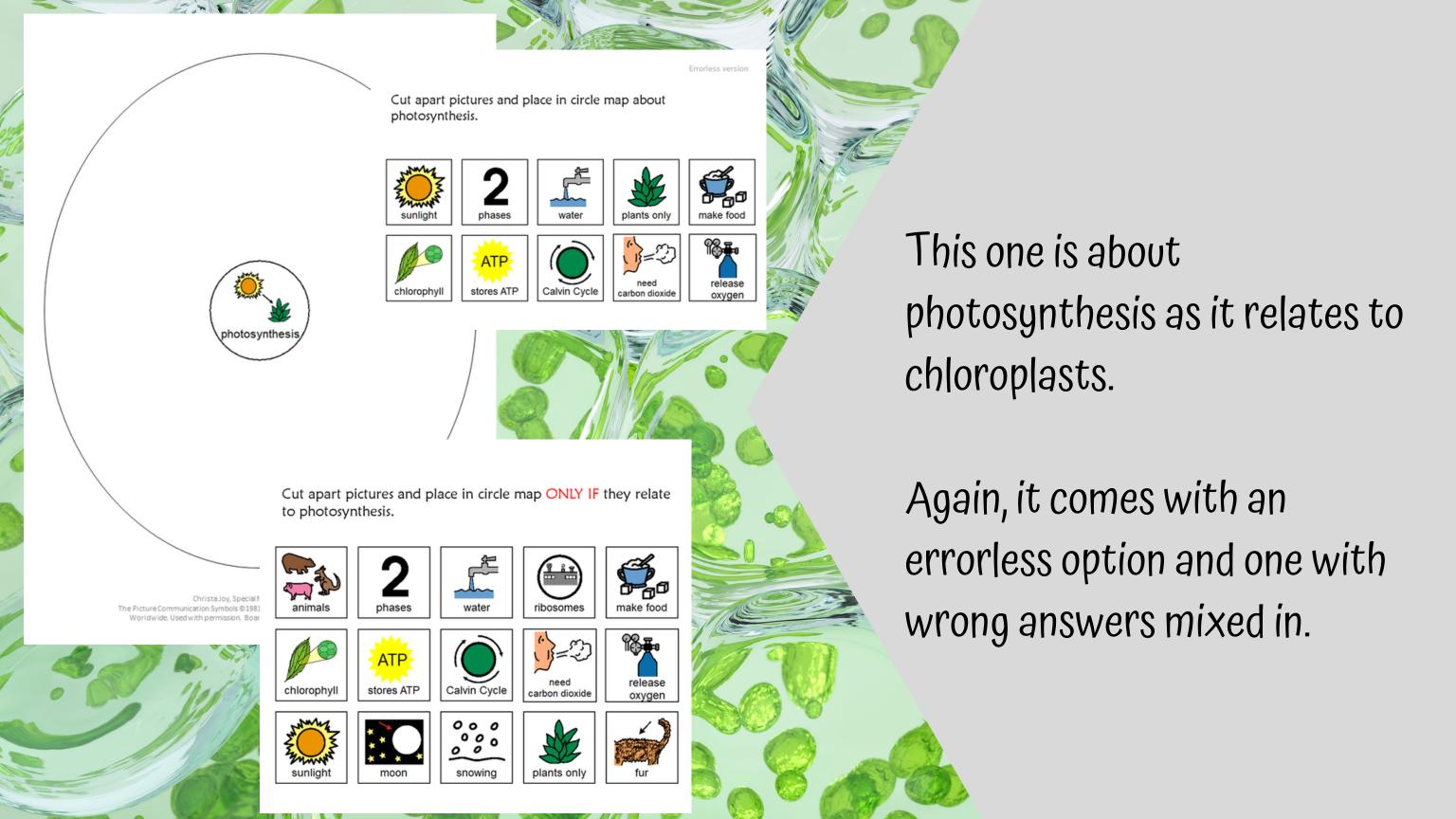
It comes in a PowerPoint version as well as a voice-recorded PowerPoint (so you don't have to print it out.)
There is also a movie version you can use in google slides.

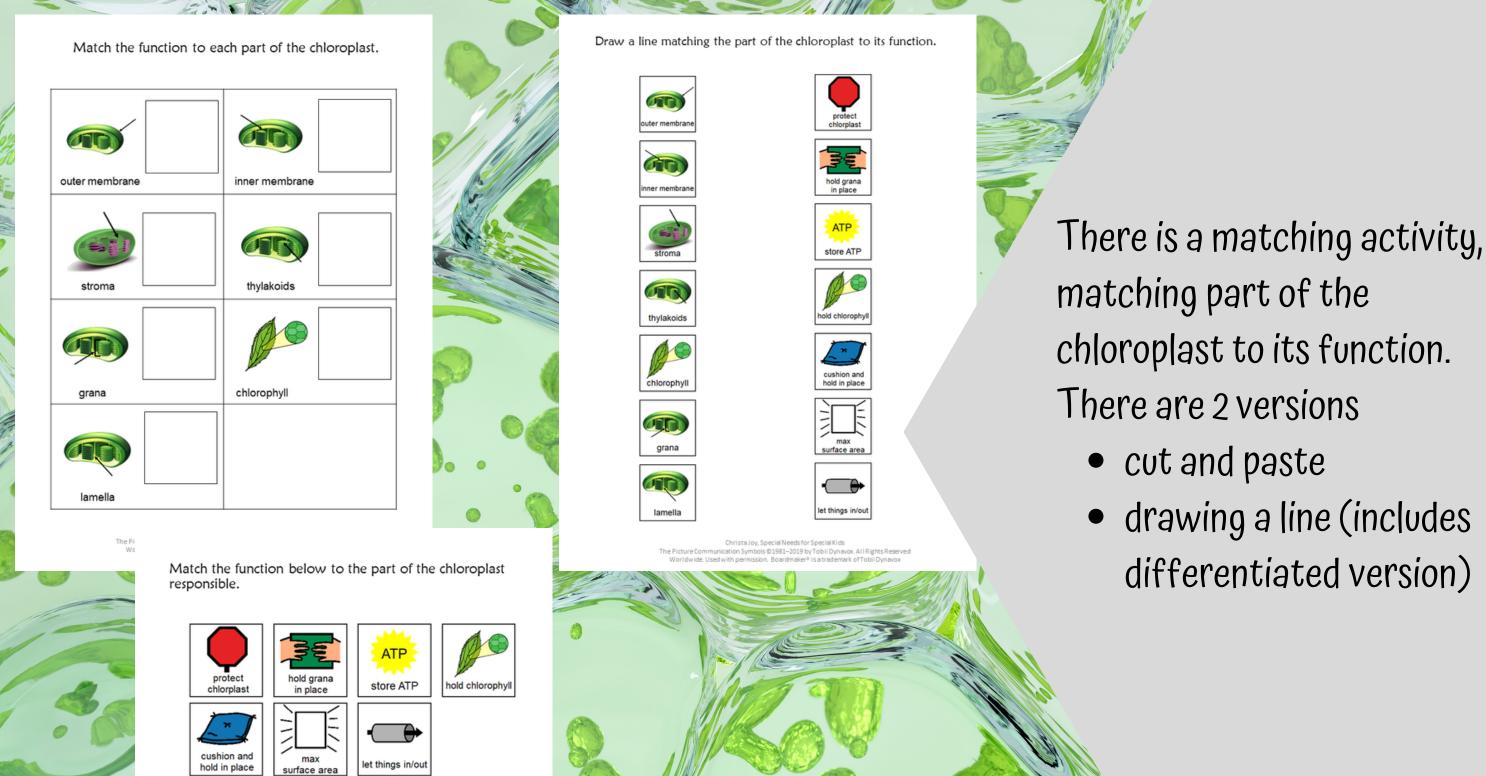


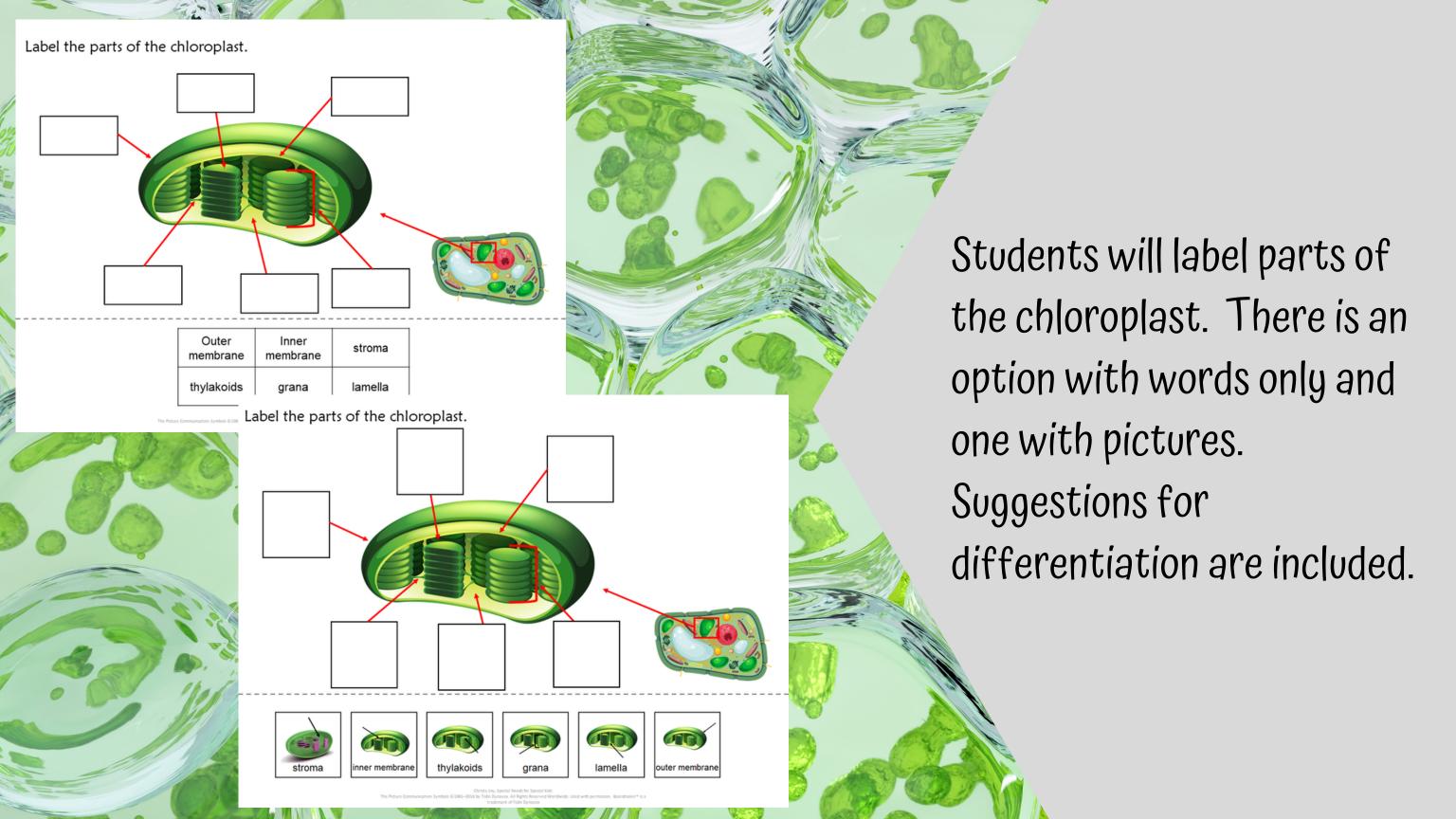
There are 2 circle maps that review the main facts from the book. One is on chloroplasts.

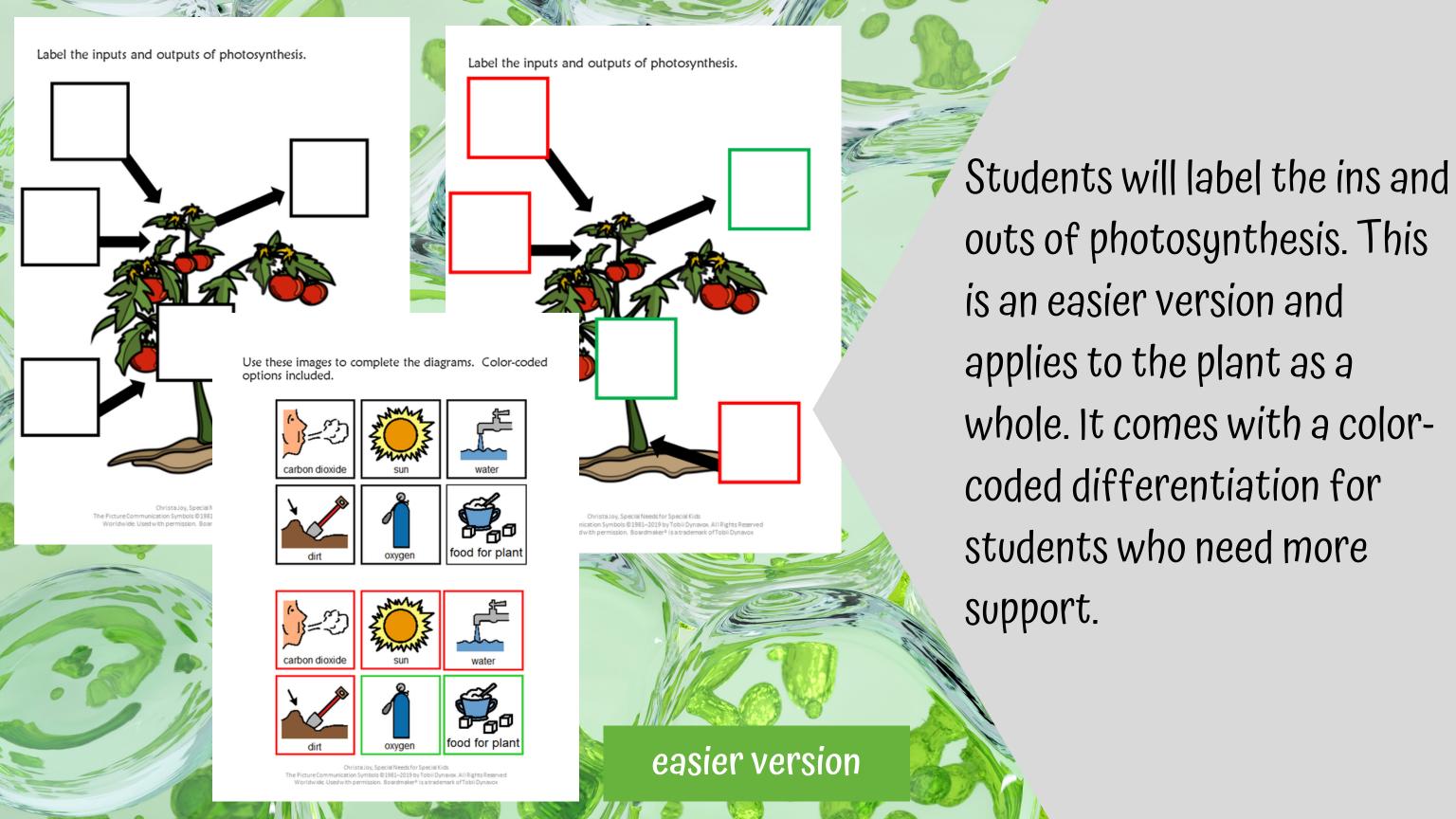
Circle maps are a great way for students to see the concept at a glance. There are 2 versions:

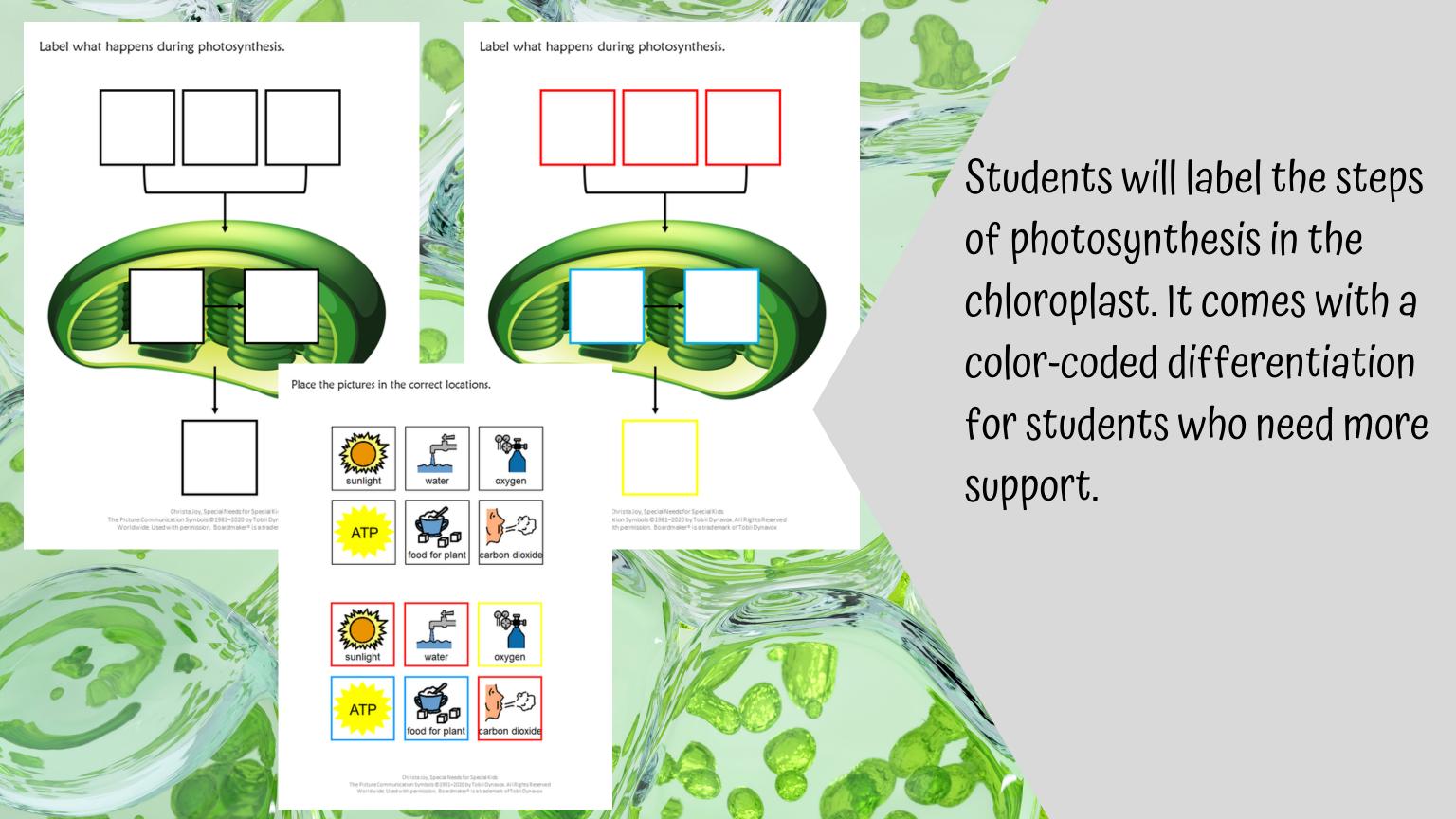
- One is errorless
- One has wrong answers mixed in students will have to set aside

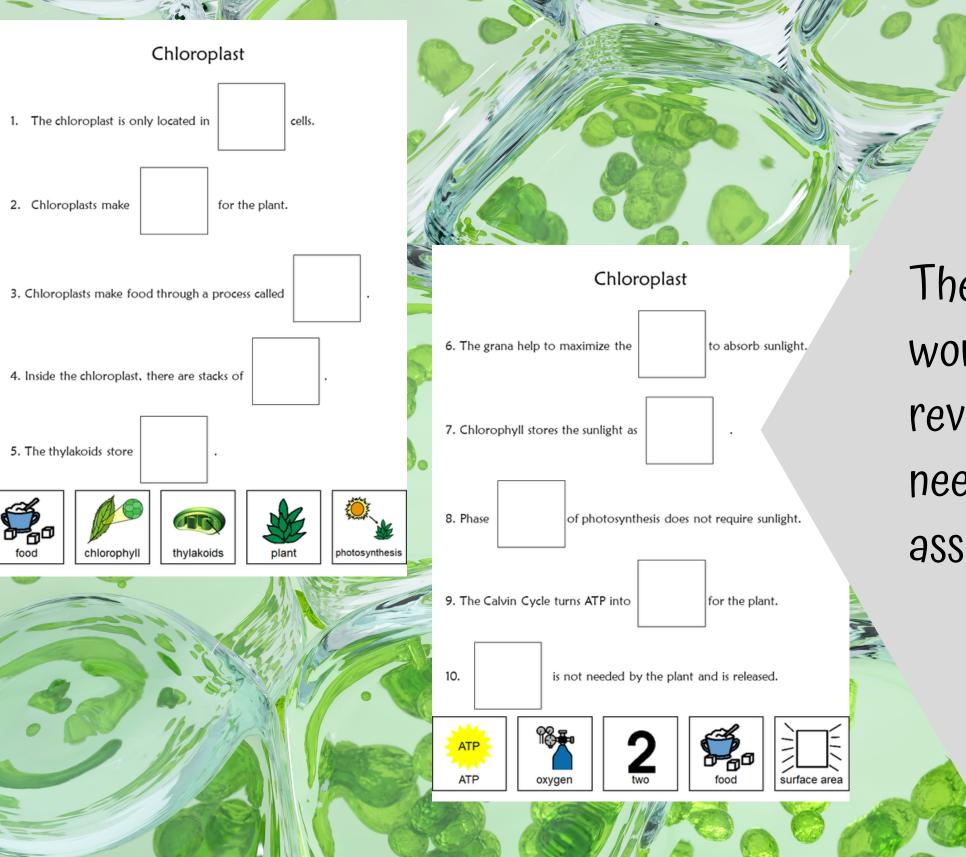












There are 2 fill-in-the-blank worksheets. These allow you to review and find areas that may need to be re-taught before the assessment.

Version 1

1. What do chloroplasts make for the cell?







2. Which type of cells have chloroplasts?







3. What keeps the chloroplasts safe inside the cell's cytoplasm?







4. What is the process chloroplasts use to make energy?







5. How are the thylakoids arranged in the







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1. What do chloroplasts make for the cell?

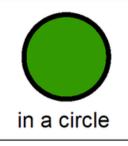
- A. Oxygen
- Food
- C. DNA
- 2. Which type of cells have chloroplasts?

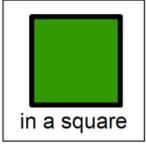
 - Animals
- 3. What keeps the chloroplasts safe inside the cell's cytoplasm?
 - A. Outer membrane
- chlorophyll
- 4. What is the process chloroplasts use to make energy?
- Cellular respiration
- Photosynthesis
- Cell division
- 5. How are the thylakoids arranged in the chloroplast?
 - A. In a circle
 - B. In a square
- C. In stacks
- What keeps the grana from falling over and stay spaced out?
 - Ladder
- Inner membrane

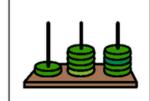
apart and show student answer choices for each question.

Print onto cardstock or mount on index cards. Cut pictures

Q 5





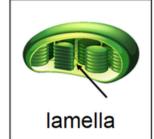


Version 2

in stacks

Q 6

Version 3





inner membrane

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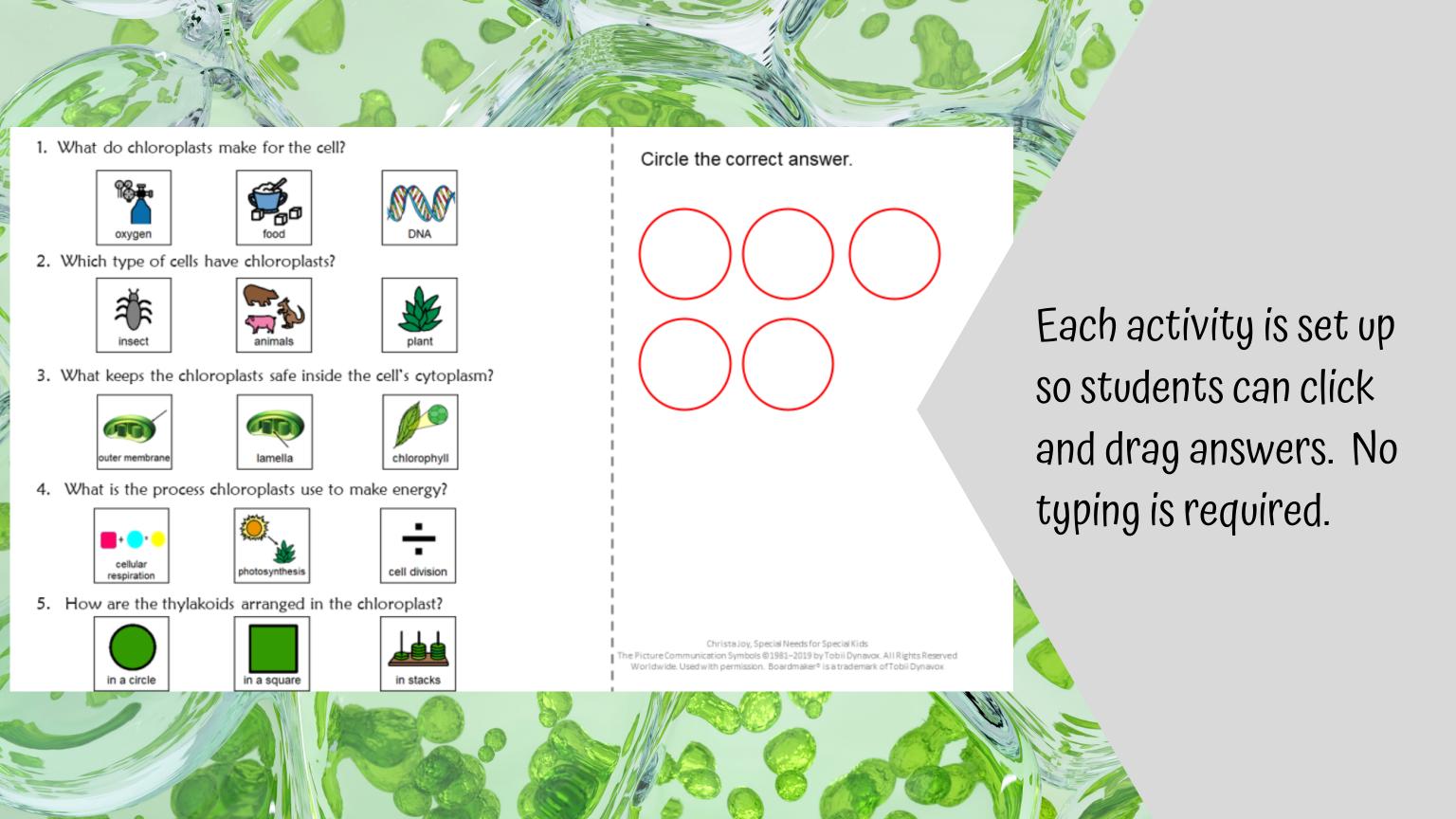
There is a 10 question assessment that comes in 3 versions. Answer key included.

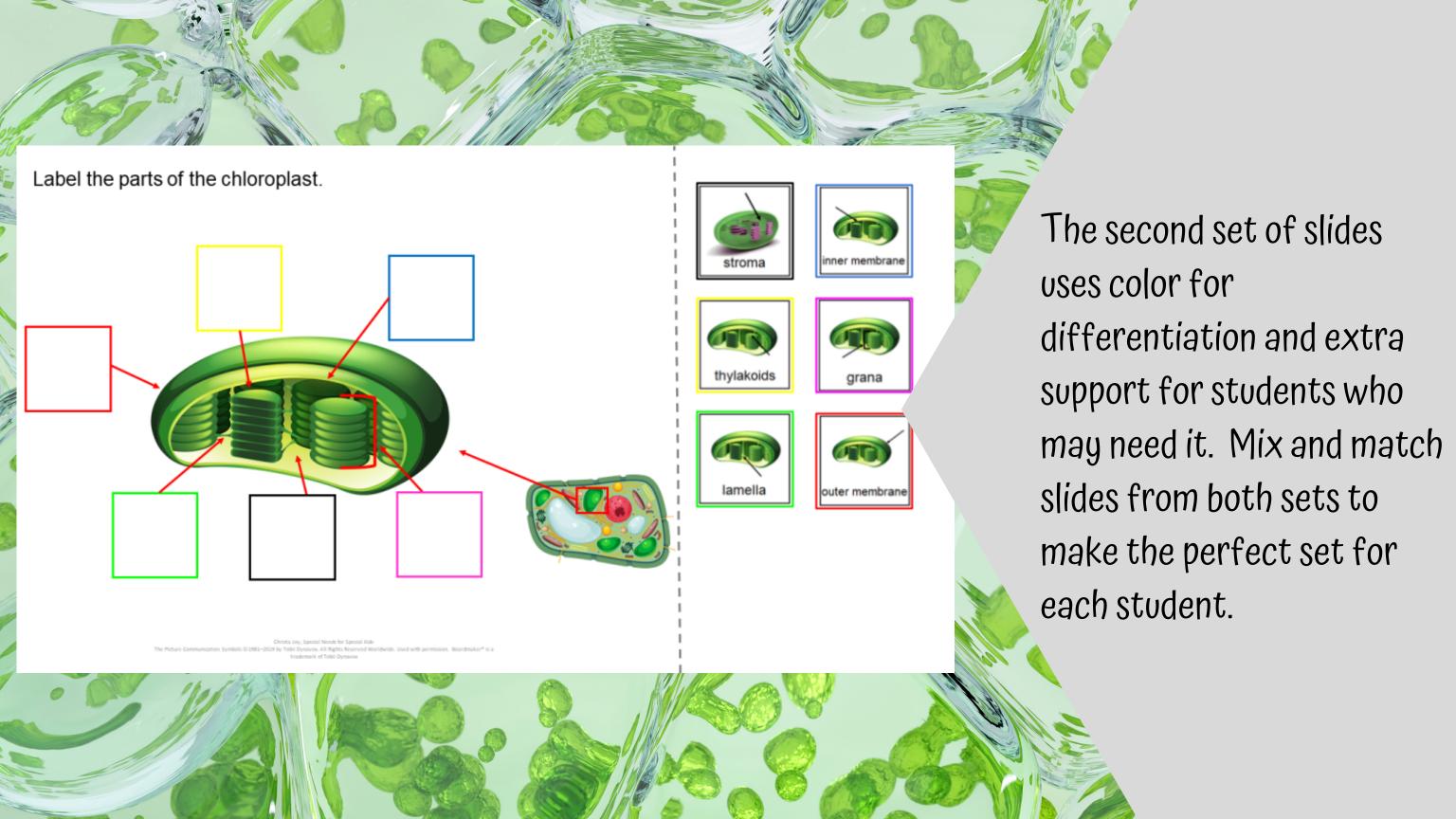


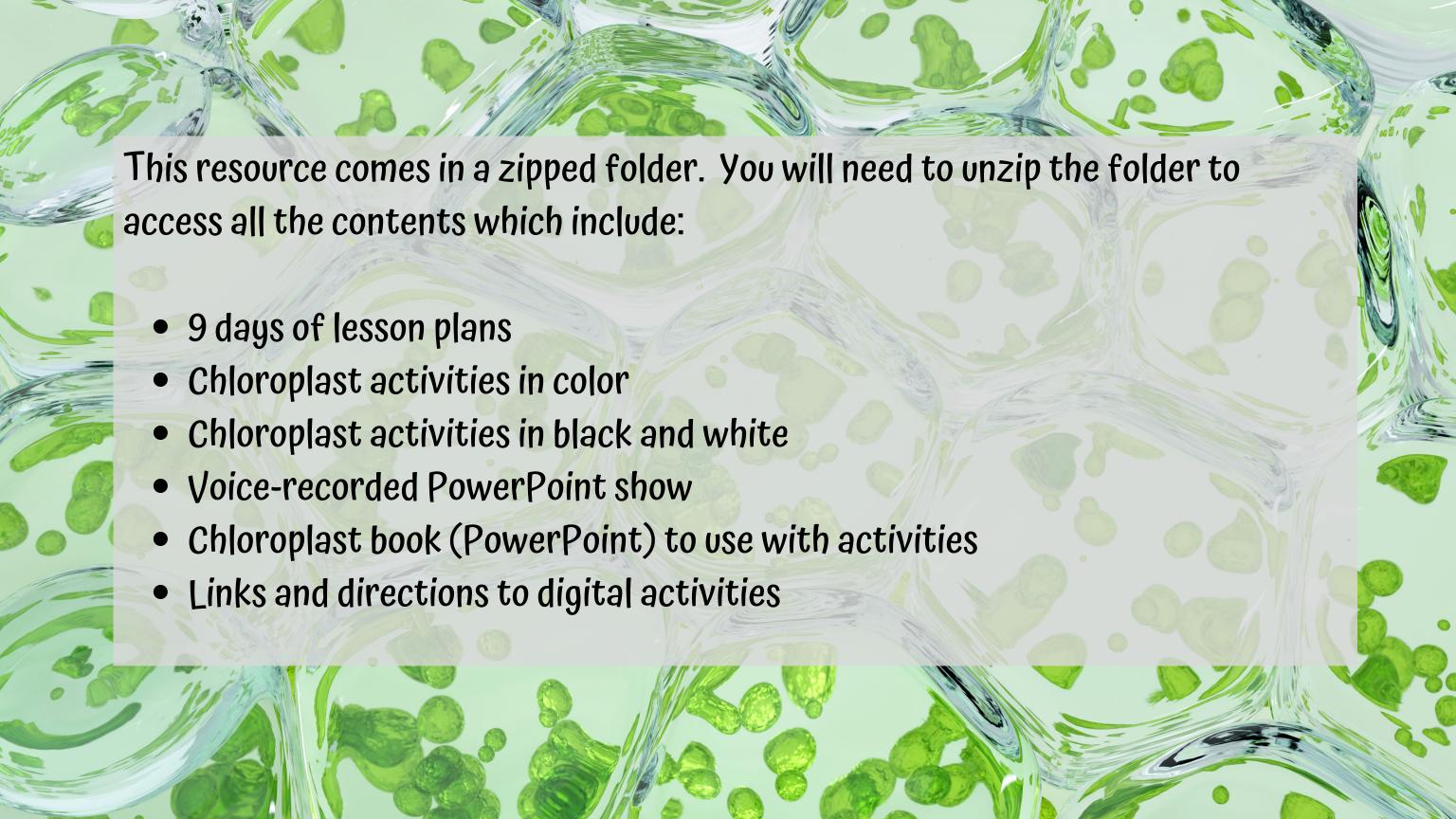


This unit also includes digital versions of the activities.

Students can watch a movie book version of the book rather than printing it out.







This is a focused unit for students who need more practice with organelles in the cell.

I also have a Biology bundle that is an overview of the cell that includes mitosis and heredity.

CLICK HERE-