

SPECIAL ED

PARTS OF PLANTS



INCLUDES GOOGLE SLIDES



This unit was created with this guy in mind. He has autism and an intellectual disability. He is a non-reader, and loves looking at plants on our walks. With some support he is able to do this unit, and enjoys the challenge. He is my tester!!

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4-5	Vocabulary board
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In separate files, you will find:

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

This unit contains 13 days of activities 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.

Parts of Plants

Lesson Plan

Preparation

- Print out a vocabulary board for each student to use throughout unit
 - Laminate or place in page protector
- Vocabulary cards
 - Print out a set of cards onto cardstock and laminate
 - Make one set for each student and one for the teacher to use in I Spy games
- Book
 - Print out, laminate, and bind
 - Also available as a recorded PowerPoint and video in the directions for digital activities pdf
- Who am I activity cards
 - Print out a set of cards onto cardstock and laminate
 - Make one set for each student and one for the teacher to use
- Bingo cards
 - This unit comes with a set of Bingo cards
 - They are in color
 - Print on cardstock
 - Suggestions for

Preassessment (do day 1 before)

- Use the fact sheet to ask
- I cannot emphasize enough preassessment is so important

Teaching Tips

1. **Color Coding:** this is a great way to help students with significant needs. Outline or color in a corresponding picture.
 - a. For more info, visit <https://specialneedseducation.com/differentiation/>
 - b. I also have a blog post <https://specialneedseducation.com/easily-and-effectively/>
2. **Make your own copy:** I often complete this worksheet myself and could use your feedback.

Day 3

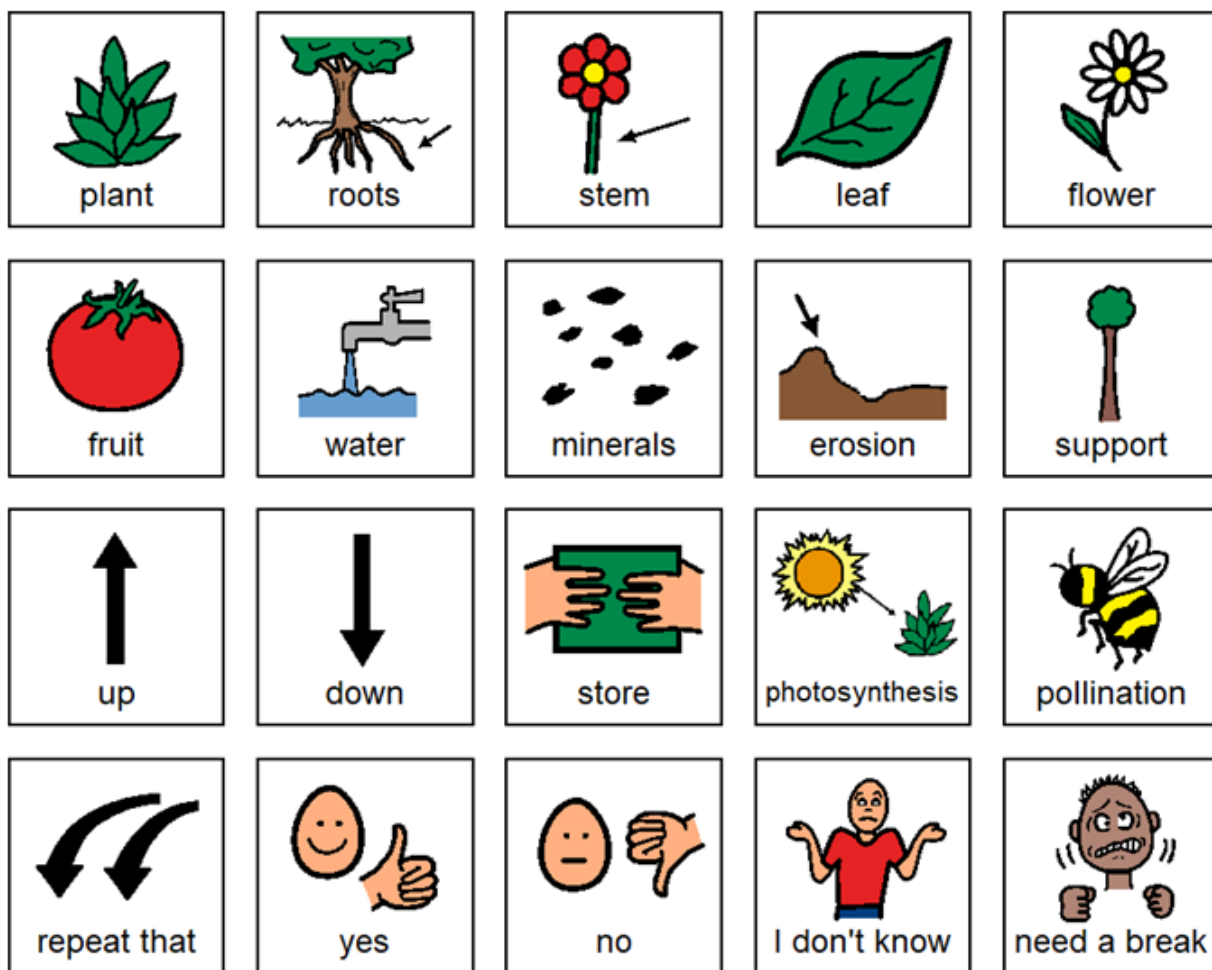
Activity	Notes	Materials
Read or listen to the book (10 minutes)	<ul style="list-style-type: none"> • Read through the story, asking lots of questions • Continue to make connections between book and vocabulary board 	<ul style="list-style-type: none"> • Book • Vocabulary board
Vocabulary cards Scavenger Hunt (10 minutes)	<ul style="list-style-type: none"> • Place one set of the vocabulary cards around the room before lesson • Students walk around and find them, bring them back and matching them to their own set of cards 	<ul style="list-style-type: none"> • Vocabulary cards (extra sets) •
Labeling plant review (5 minutes)	<ul style="list-style-type: none"> • Review the plant labeled yesterday 	<ul style="list-style-type: none"> • Worksheet completed previously
Labeling parts of plant (10 minutes)	<ul style="list-style-type: none"> • Do the second worksheet labeling the parts of the plant <ul style="list-style-type: none"> ◦ Add color-coding if needed for more support ◦ Compare to the plant labeled yesterday • Make connections to the book and plants in the room or around the school 	<ul style="list-style-type: none"> • plant worksheet • Scissors • Glue • Crayons or markers
Sharing (10 minutes)	<ul style="list-style-type: none"> • Each student shares their finished worksheet with the group using the communication method of their choice 	<ul style="list-style-type: none"> • Completed worksheet • Communication devices

Quick Look

Day	Activity	Day	Activity
1	<ul style="list-style-type: none"> • Book • Vocabulary cards activity • Circle map 	8	<ul style="list-style-type: none"> • Book • Vocabulary cards paste • Sudoku puzzle
2	<ul style="list-style-type: none"> • Book • Vocabulary cards activity • Label parts of plant 	9	<ul style="list-style-type: none"> • Book • Bingo • Close word
3	<ul style="list-style-type: none"> • Book • Vocabulary cards activity • Label parts of plant 	10	<ul style="list-style-type: none"> • Book • Bingo • Close word
	<ul style="list-style-type: none"> • Book 	11	<ul style="list-style-type: none"> • Book • Vocabulary cards •
		12	<ul style="list-style-type: none"> •
		15	<ul style="list-style-type: none"> •

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



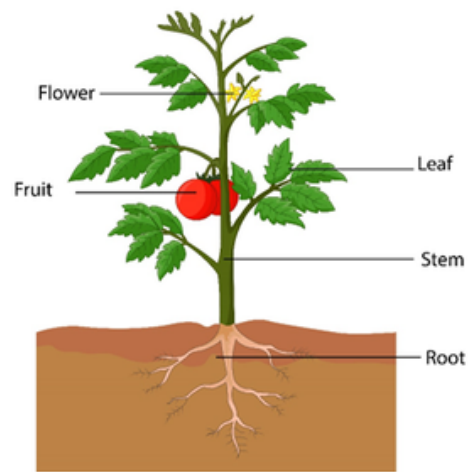
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This unit comes with a vocabulary board.

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

Tips on how to use in the unit!!

We are going to look at the main parts of most plants and what their main job or function is.



There are 3 main parts of most leaves. The **petiole** is the thin stalk that attaches the leaf to the stem.



There is a book with this unit using simple text and photos. It is 45 pages and is an overview of the main parts of most plants.

Both come in pdf versions as well as a voice-recorded powerpoints (so you don't have to print it out.)

simple leaf

A single, un-divided leaf that attaches directly to the stem.



compound leaf

Several smaller leaves attached to the stem by a midvein.



root system

Part of the plant below the ground.



shoot system

Part of plant above the ground.



transpiration

Evaporation of excess water through the leaves.



flower

Reproductive organ of most plants.



roots

Part of plant below ground that sends water and minerals from soil up the plant and helps support the plant.

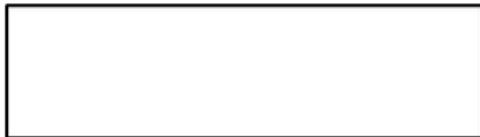


stem

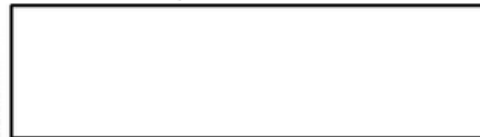
Part of plant above ground that supports the plant and sends minerals and water to leaves.



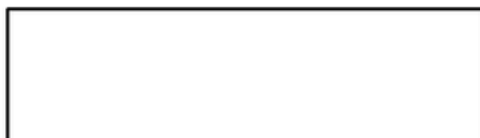
node



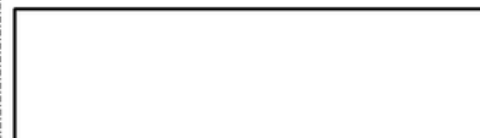
xylem tissue



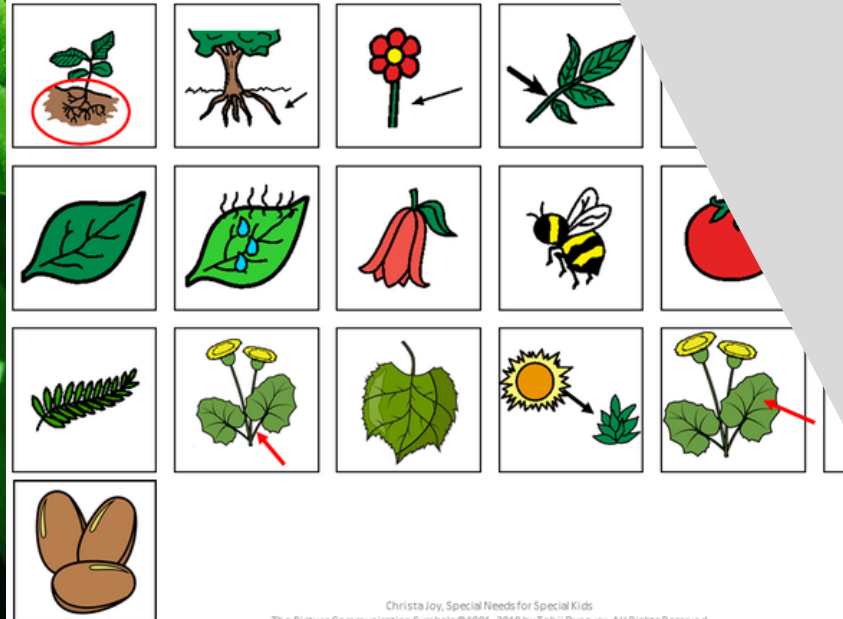
phloem tissue



leaf



Cut apart and match pictures with definition.



There are 19 vocabulary cards that come in color and black and white.

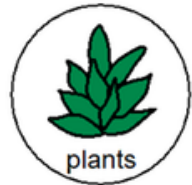
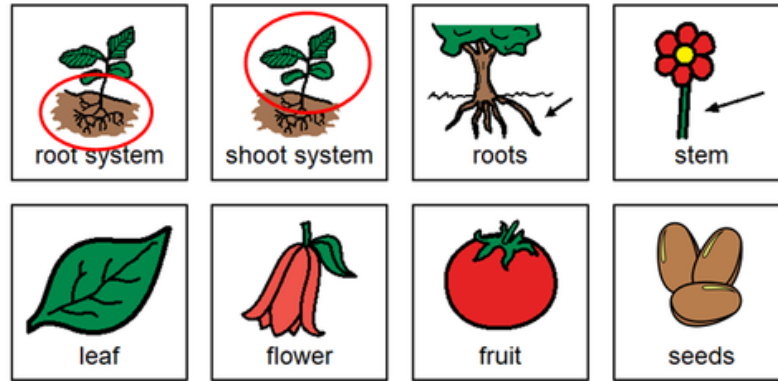
Included are suggestions for group activities to do with these each day.

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

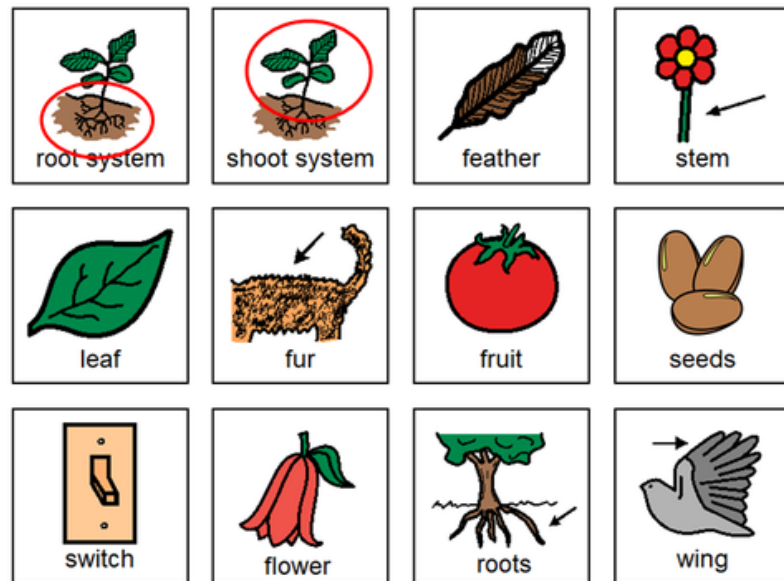
What are the main parts of plants?

Errorless version

Place the pictures in the circle map on previous page about the parts of plants.



Place the pictures in the circle map on previous page **ONLY IF** they are parts of plants.



There is a circle map on the main parts of a plant.

Circle maps are a great way for students to see the concept at a glance.

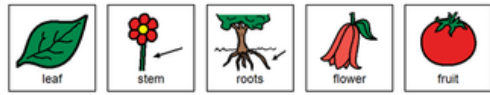
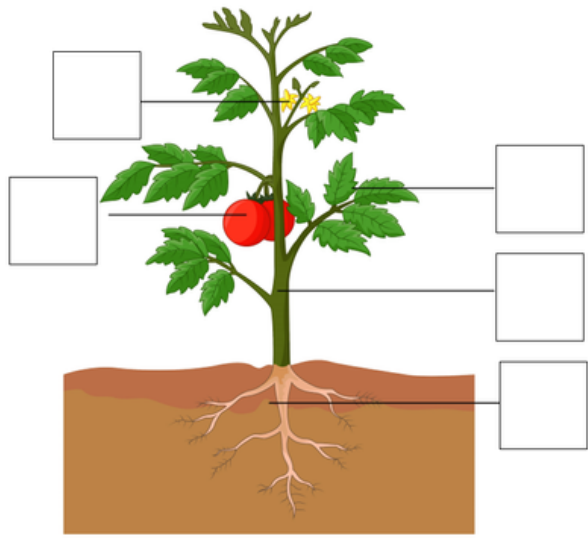
There are 2 versions:

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

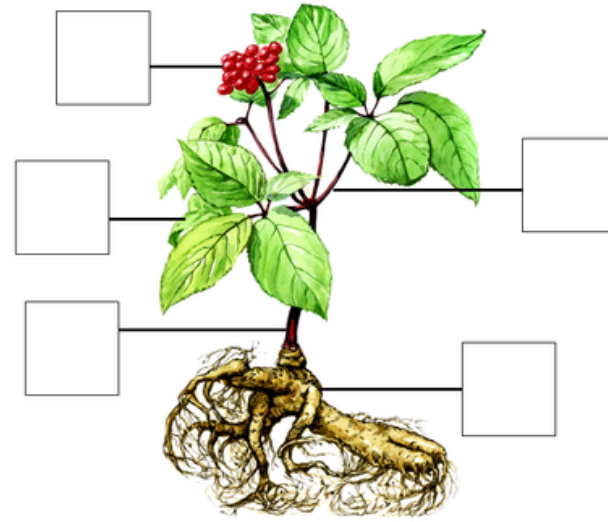


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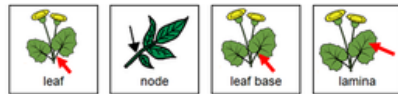
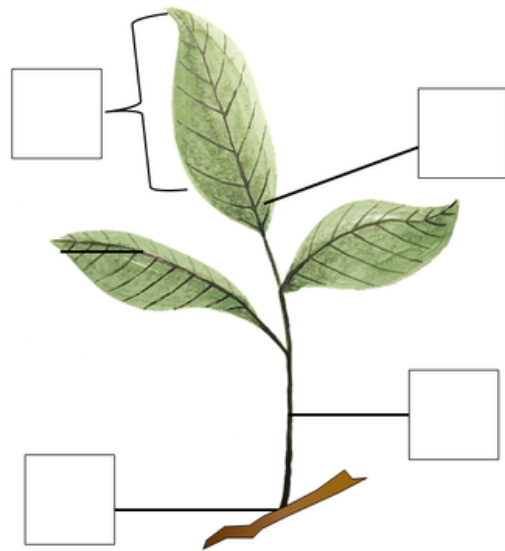
Label the parts of the plant.



Label the parts of the plant.

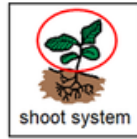
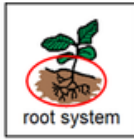


Label the parts of the leaf.



There are 3 labeling activities where students can label the parts of a plant or leaf. Suggestions for differentiation are included.

Sort the parts of the root system and parts of the shoot system.



Sorting activity for plant parts. The grid contains the following items:

- node
- stem
- roots
- flower
- petiole
- lamina
- leaf base
- leaf
- fruit
- seeds

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Sort the leaves on the next page into those that are simple and those that are compound.











Sorting activity for leaves. The grid contains 16 different types of leaves for classification.

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There are 2 sorting activities where students can sort parts of the root and shoot system as well as simple and compound leaves. Suggestions for differentiation are included.

Look at each part of the plant. What is its function?






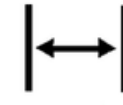


 roots	<input type="text"/>	 stem	<input type="text"/>
 xylem tissue	<input type="text"/>	 phloem tissue	<input type="text"/>
 leaf	<input type="text"/>	 petiole	<input type="text"/>
 flower	<input type="text"/>	 fruit	<input type="text"/>



There is a matching activity, where students will match the main function with the part of the plant. Suggestions for differentiation are included.

Match the following places to the smells on the previous page.

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 support plant	 direct plant to sun	 protect seeds	 photosynthesis
 reproduction through pollination	 connects leaf & stem	 nutrients & water up stem	 glucose down stem

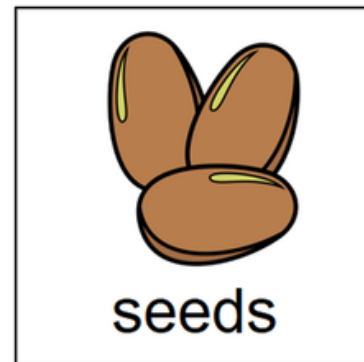
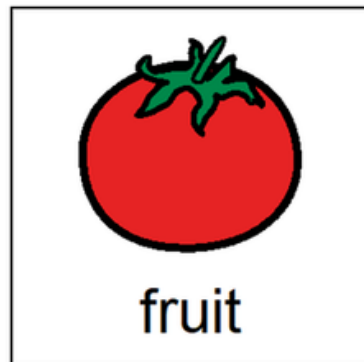
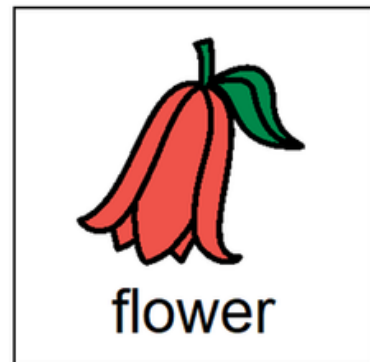
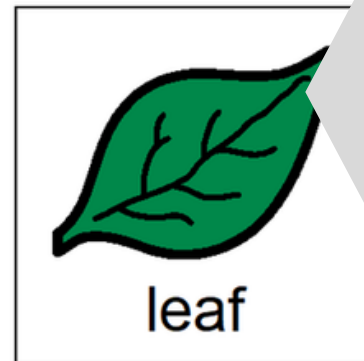
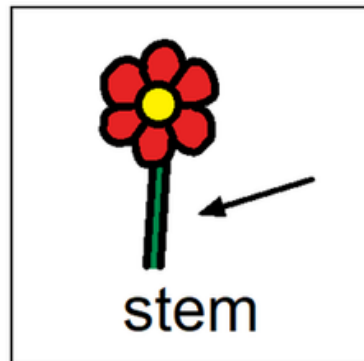
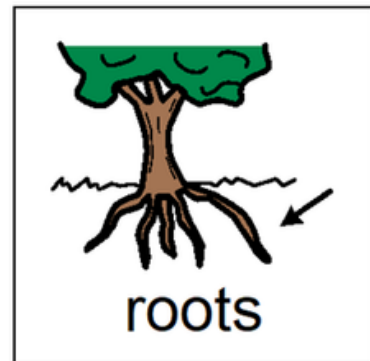
Who am I cards

- Give each student a set of Who am I cards
- Various options/ways to play, but the goal is to have students hold up the card you are talking about. Sometimes there can be more than one correct answer
- Things you can do:
 - Hold up a vocabulary card
 - Show a page from the book
 - Point to a symbol on the vocabulary board
 - Verbally describe something about that part of the plant.
- Tell a story as though you were a plant.
 - What do you see?
 - What is the weather like?
 - What part of you is growing?
 - Where do you live?
 - What do your flowers look like
 - What does your fruit look like?



There are large cards and directions for playing a "Who am I?" group activity.

Large cards for Who am I activity



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Bingo cards



- Included are 10 Bingo cards in color and 10 Bingo cards in BW.
- Place the cards in page protectors or laminate for long term use.
- **Cut one board apart to use as calling cards.**
- This is a great way to practice the new vocabulary included in this unit.
- Cut apart a set of the vocabulary cards to use as the calling cards.
- Options:
 - Show students the picture for them to match
 - Read the definition and see if students can find the matching picture
 - Work as teams
 - Vary the "winning" patterns.
 - Cover all
 - Cover corners
 - Row across or down
 - Cover the edges
 - Vary the ways to mark the card
 - Place in page protector or laminate and use dry erase markers
 - Stickers
 - Post-it notes
 - Dot markers

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Plants

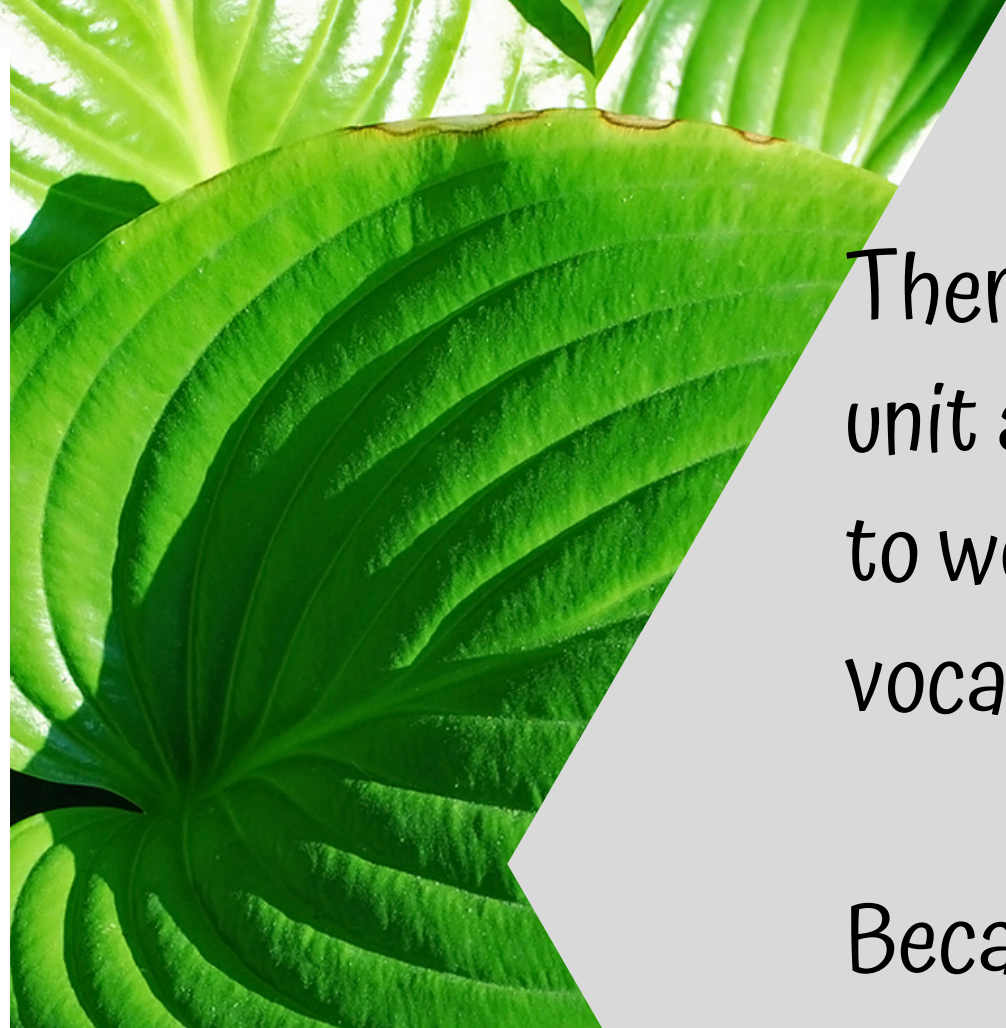
 simple leaf	 seeds	 stem	 roots
 node	 plant	 fruit	 photosynthesis
 pollination	 compound leaf	 leaf base	 petiole
 lamina	 transpiration	 flower	 leaf

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There are 10 color and 10 black and white Bingo cards included plus 10 different ways to use them and play Bingo. This is a great way to review vocabulary.

Parts of Plants

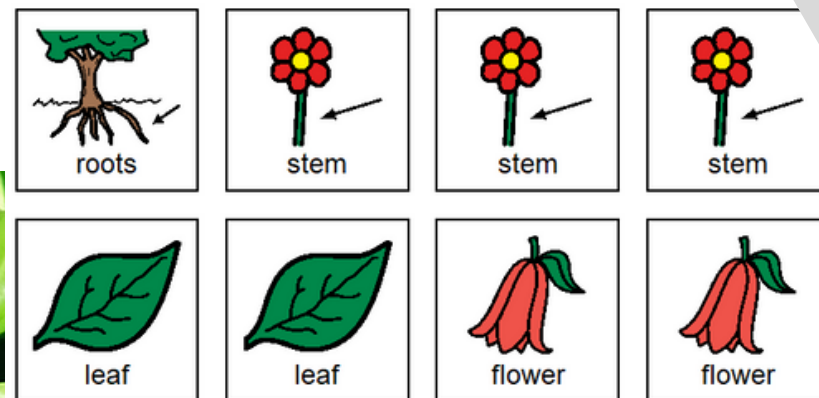
	 flower		 roots
 roots			 stem
 leaf		 roots	
 flower			 leaf



There is a Sudoku puzzle in this unit as well. This is a great way to work with the new vocabulary!!

Because this unit is for younger students, there is just one, 4x4 puzzle. An answer key is included..

Place the following images in the empty squares on the previous page, completing the sudoku puzzle.





Roots

1. Roots send water and nutrients up the .

2. Roots hold the together.

3. Roots can water for later during a drought.

4. Roots provide the material for .

5. For most plants, roots are the ground.



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Stem

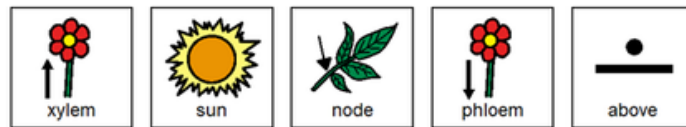
1. For most plants, the stem is the ground.

2. The is where the leaf attaches to the stem.

3. The tissue sends water and nutrients up the stem.

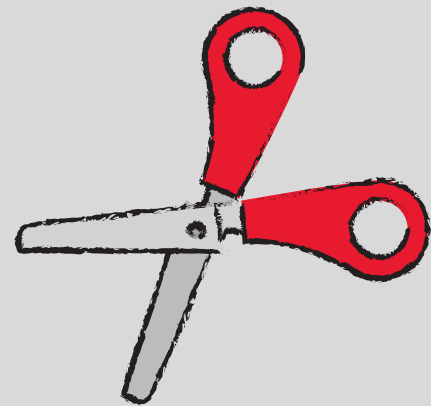
4. The tissue sends extra glucose and nutrients down the stem.

5. The stem can angle the leaves toward the .

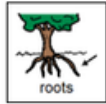


Close worksheets are a great informal assessment. There are 4 worksheets, one for roots, stems, leaves, and flowers/fruit/seeds.

Answer key included.



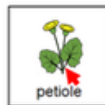
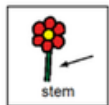
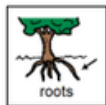
1. Which part of the plant is normally below the ground?



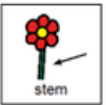
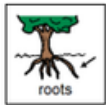
2. Which part of the plant is the food-making factory?



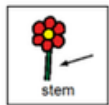
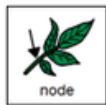
3. Which part of the plant can angle the leaves toward the sun?



4. Circle the parts of the shoot system



5. What is the reproductive org

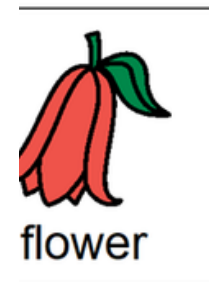
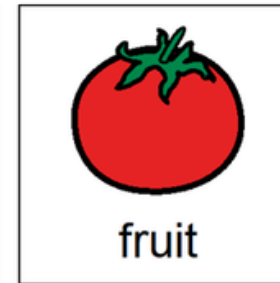
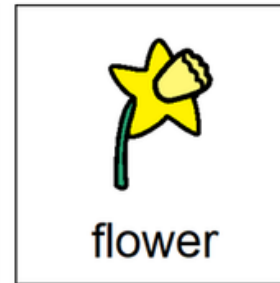
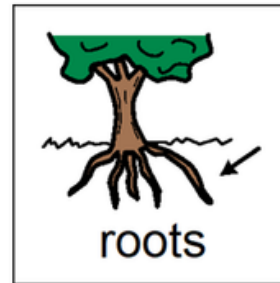


- Version 3
- Which part of the plant is normally below the ground?
 - roots
 - flower
 - fruit
 - Which part of the plant is the food-making factory?
 - seeds
 - flower
 - leaf
 - Which part of the plant can angle the leaves toward the sun?
 - roots
 - stem
 - petiole
 - Circle the parts of the shoot system.

A. roots	D. flower
B. stem	E. fruit
C. leaf	F. seeds
 - What is the reproductive organ of many plants?
 - node
 - stem
 - flower
 - What grows where the flower used to be?
 - leaf
 - roots
 - fruit

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

Q 1



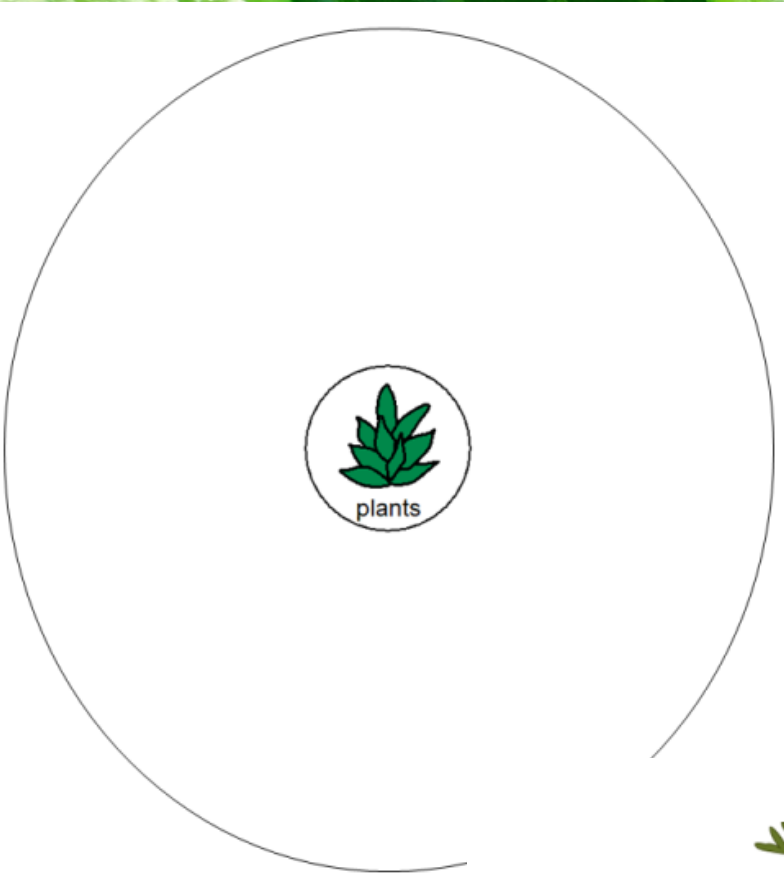
There is a 10 question assessment that comes in 3 versions. Answer key included.

Listen to
the book
read
aloud

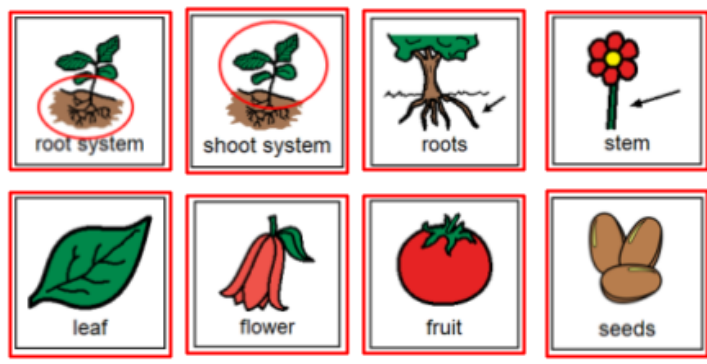


*This unit also has
digital activities.
There is a movie
version of the
books students
can listen to read
aloud.*

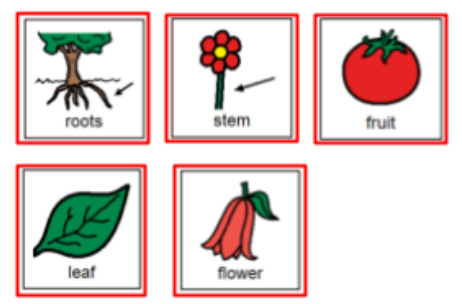
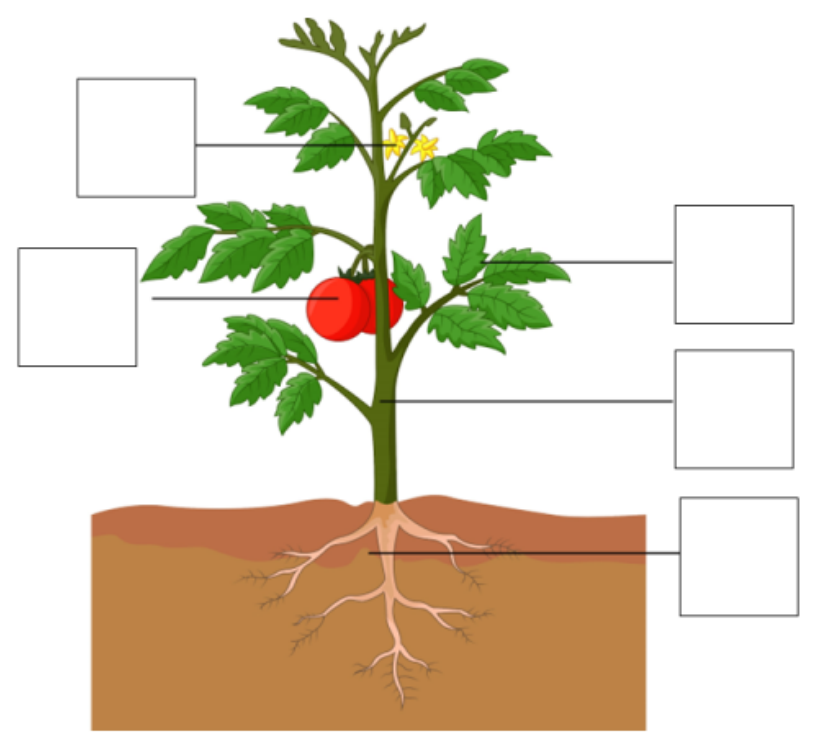
Great for review



Place the pictures in the circle map on previous page about the parts of plants.











Label the parts of the plant.




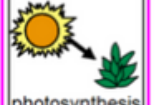

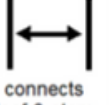

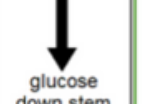


The digital activities have students click and drag their answers.

Perfect for all learning levels

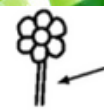
 roots	<input type="text"/>	 stem	<input type="text"/>
 xylem tissue	<input type="text"/>	 phloem tissue	<input type="text"/>
 leaf	<input type="text"/>	 petiole	<input type="text"/>
 flower	<input type="text"/>	 fruit	<input type="text"/>

Match the function below with the part of the plant.

 support plant	 direct plant to sun	 protect seeds
 photosynthesis	 reproduction through pollination	 connects leaf & stem
 nutrients & water up stem	 glucose down stem	

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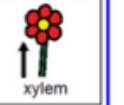


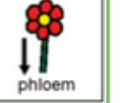

There are 2 sets of slides. One set has color-coding for more support.



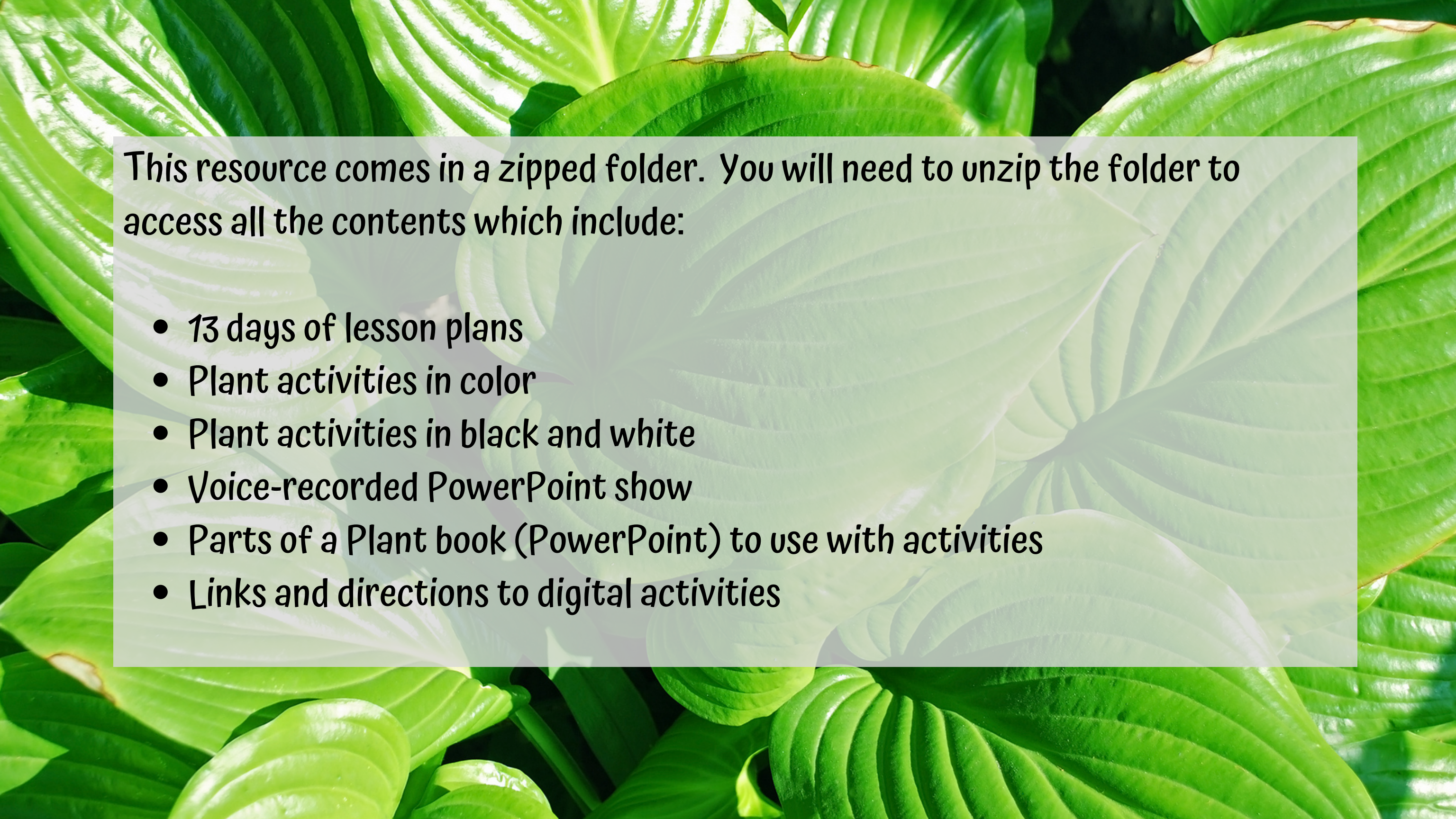
Stem

- For most plants, the stem is the ground.
- The is where the leaf attaches to the stem.
- The tissue sends water and nutrients up the stem.
- The tissue sends extra glucose and nutrients down the stem.
- The stem can angle the leaves toward the .

Choose the best picture to finish each sentence.

 xylem	 sun	 node
 phloem	 above	

Christa Joy, Special Needs for Special Kids
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The background of the slide is a close-up photograph of vibrant green leaves, likely from a tropical plant like a Philodendfon. The leaves are layered, showing their characteristic vein patterns and glossy texture. A semi-transparent white rectangular box is centered on the slide, containing the main text and a bulleted list.

This resource comes in a zipped folder. You will need to unzip the folder to access all the contents which include:

- **13 days of lesson plans**
- **Plant activities in color**
- **Plant activities in black and white**
- **Voice-recorded PowerPoint show**
- **Parts of a Plant book (PowerPoint) to use with activities**
- **Links and directions to digital activities**