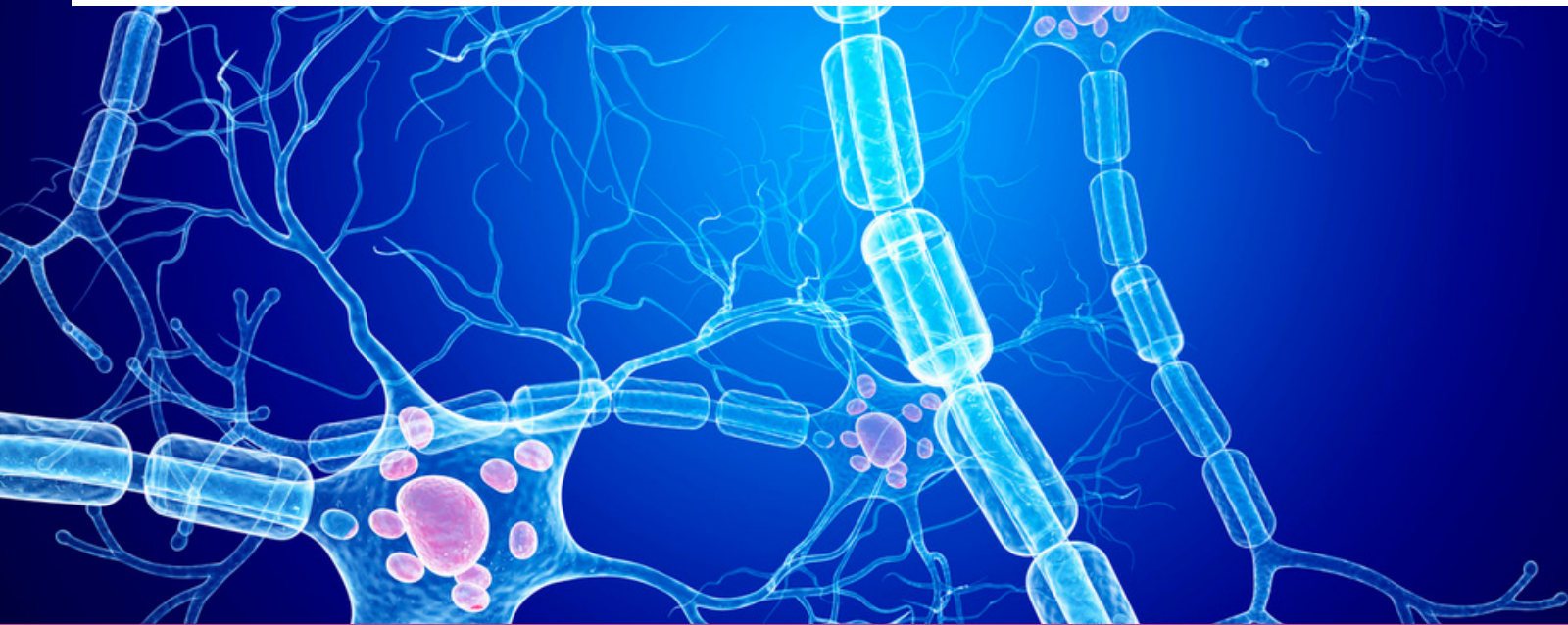


NERVOUS SYSTEM



ALSO INCLUDES GOOGLE SLIDES



This unit was created with this guy in mind. He has autism and an intellectual disability. He is a non-reader, 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

Nervous System Unit for Special Education

By
Christa Joy
Special Needs for Special Kids

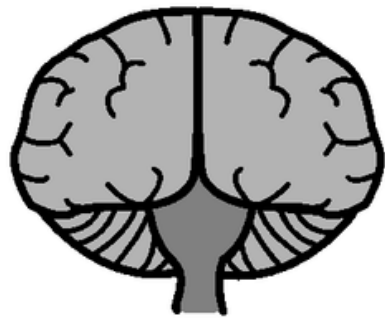


Table of Contents

Worksheet pages	Title
4-5	Vocabulary board
6-10	Vocabulary cards
11-21	Vocabulary cut and paste
22-31	Circle maps
32-37	Labeling activities
38-43	Sorting activities
44-50	Sudoku Puzzle
51-52	Word Search
53-57	Cloze worksheets
58-69	Assessment (3 versions)
70-72	Accessibility sorting
73-74	Terms of Use

Also included in this resource as separate files:

- Lesson plans
- Links and directions to digital activities
- PowerPoints (**these are the books in the lesson plans**)
- Voice recorded PowerPoint
- Activities in black and white

This unit contains over **150 pages** of material plus **42 google slides**. 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.

Nervous System Lesson Plan

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 I Spy games

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

1. *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 task.
 - a. For more info, read more here:
<https://specialneedsforspecialkids.org/2015/09/05/using-color-coding-for-differentiation/>
 - b. I also have a blog post on differentiating one activity 3 ways:
<https://specialneedsforspecialkids.org/2018/10/22/differentiating-1-activity-3-ways-easily-and-effectively/>
2. *Make you own copies of the activities:* Every day I review the activity we did yesterday. For that reason:
 - a. I often complete the activity myself and often laminated it for easy review that I could use year after year.
 - b. My copies were also helpful as either a model for students who needed more support or as a way for more advanced students to self-check their work.

The lesson plans contain:

Overall tips for teaching students with significant needs

Quick Look

Day	Activity		
1	<ul style="list-style-type: none">• Book• Vocab cards activity• Circle map	8	<ul style="list-style-type: none">• Book• Vocabulary cut and paste• Sudoku puzzle
2	<ul style="list-style-type: none">• Book• Vocab cards activity• Circle map	9	<ul style="list-style-type: none">• Book• Vocabulary cut and paste• Word search
3	<ul style="list-style-type: none">• Book• Vocab cards activity• Circle Map	10	<ul style="list-style-type: none">• Book• Vocab cards activity• Close worksheet
4	<ul style="list-style-type: none">• Book• Vocab cards activity• Labeling activity	11	<ul style="list-style-type: none">• Book• Vocab cards activity• Close worksheet
5	<ul style="list-style-type: none">• Book• Vocab cards activity• Labeling activity	12	<ul style="list-style-type: none">• Assessment
6	<ul style="list-style-type: none">• Book• Vocab cards activity• Sorting activity	13	<ul style="list-style-type: none">• Social Story• Sorting activity
7	<ul style="list-style-type: none">• Book• Vocab cards activity• Sorting activity		

The lesson plans contain:

A quick look at what you will do each day

Day 6

Activity	Notes	Materials
Read or listen to a recording of 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 Go Fish Game (15 minutes)	<ul style="list-style-type: none">• Using several completed student sets of vocabulary cards play a traditional go fish game<ul style="list-style-type: none">◦ Modify/use devices or buddies as needed for additional support	<ul style="list-style-type: none">• Vocabulary cards (student sets)• Vocabulary board
Labeling activity review (5 minutes)	<ul style="list-style-type: none">• Review the labeling activity completed yesterday	<ul style="list-style-type: none">• Labeling activity completed yesterday
Sorting activity (10 minutes)	<ul style="list-style-type: none">• Do the sorting activity: functions of cerebrum/cerebellum/brain stem• Add color coding if needed• Make connections to the book as necessary	<ul style="list-style-type: none">• Sorting activity• Scissors• Glue
Sharing (10 minutes)	<ul style="list-style-type: none">• Each student shares their sorting activity with the group using the communication method of their choice	<ul style="list-style-type: none">• Completed sorting activity• Communication devices

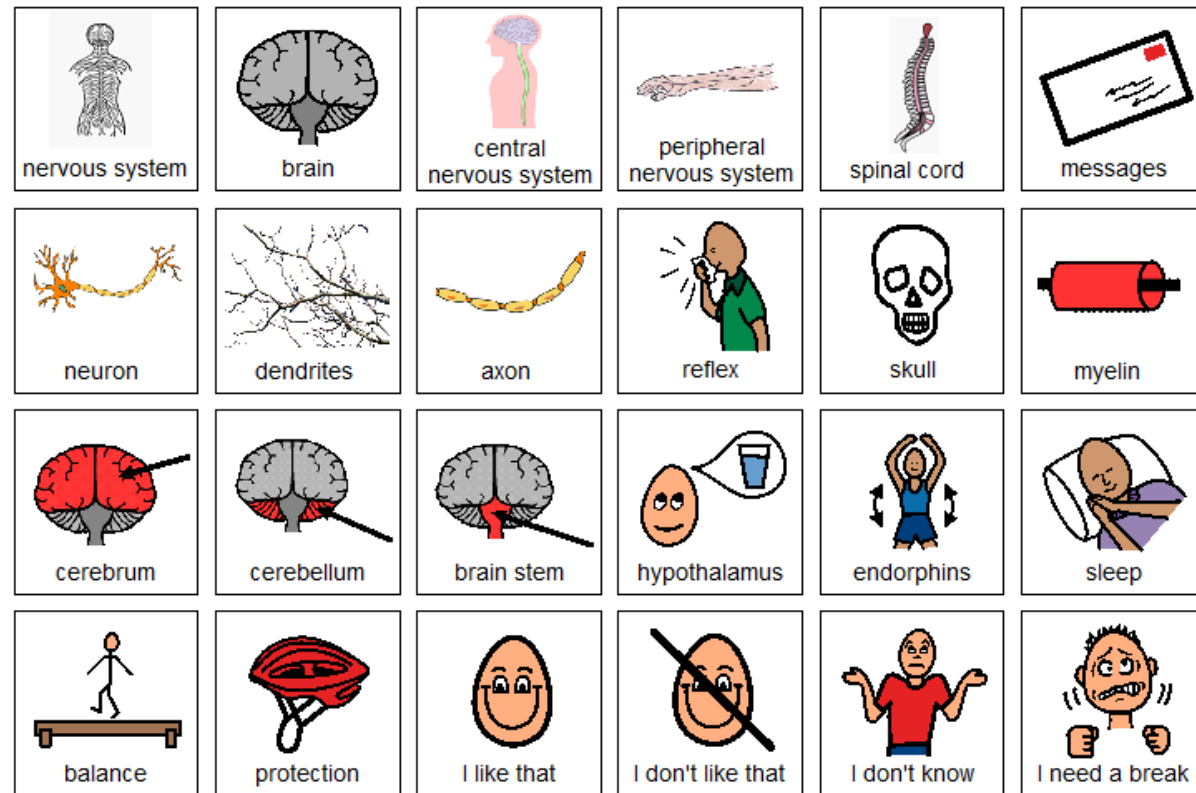
The lesson plans contain:

Detailed instructions on how that day's lesson should run

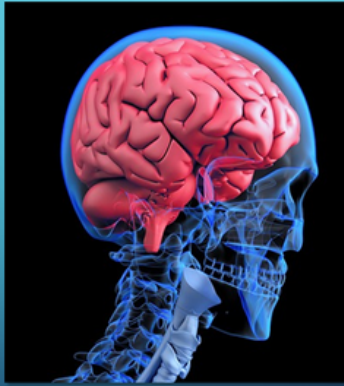
This unit comes with a vocabulary board.

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

Tips on how to use in the unit!!

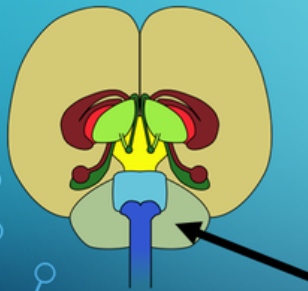


The brain has many grooves and is protected by a thick bone called the **skull**. It is also surrounded by a layer of fluid.



©Christa Joy, SNSK

The **cerebellum** is the part of your brain that helps you keep your balance.



©Christa Joy, SNSK

There is a 44-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.

A wheelchair is a tool people who have difficulty walking can use to get from place to place.



©ChristaJoy, SNSK

Because a wheelchair moves on wheels, it needs a smooth surface to travel on, like a ramp.



©ChristaJoy, SNSK

There is a 20-page social story with simple text and engaging photos about accessibility.

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.

nervous system

Your brain, spinal cord, and nerves make up this system.



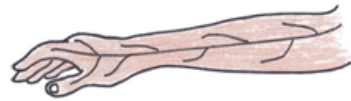
Central nervous system

Brain and spinal cord.



Peripheral nervous system

Nerves that go to the rest of your body and make you move.



brain

Control center of the nervous system and is protected by your skull and layer of fluid.



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cerebellum

Part of the brain that helps you balance.



brain stem

Most important part of your brain that keeps your heart beating and lungs breathing.



hypothalamus

Part of brain that controls body temperature and tells you when you are thirsty and hungry.



endorphins

Chemicals released when you exercise that are good for your brain.



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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.

nervous system

Your brain, spinal cord, and nerves make up this system.



Central nervous system

Brain and spinal cord.



Peripheral nervous system

Nerves that go to the rest of your body and make you move.

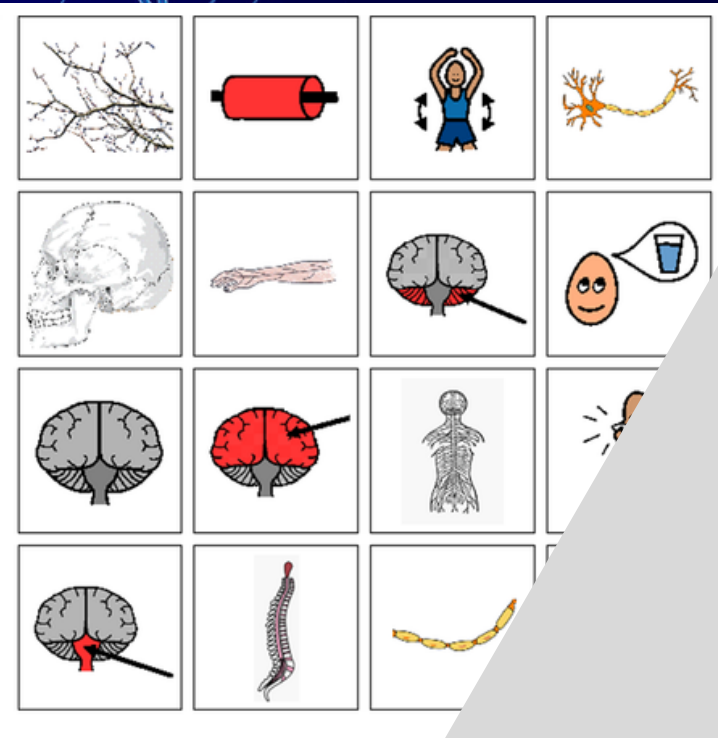


brain

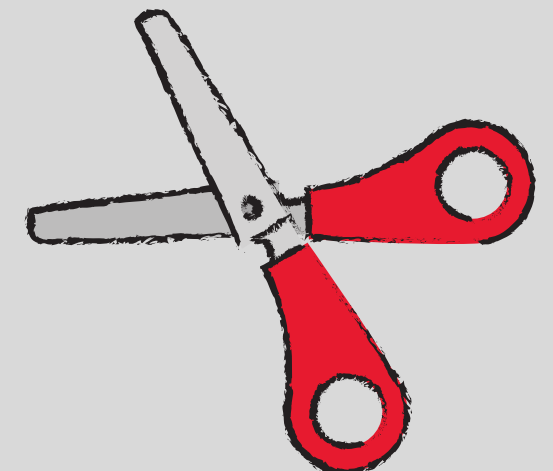
Control center of the nervous system and is protected by your skull and layer of fluid.



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There is an activity where students will match either the picture to the definition or the definition to the picture (harder).



reflex



skull



myelin



cerebrum



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Control center of the nervous system and is protected by your skull and layer of fluid.

Fatty layer covering axon that protects it and helps messages travel faster.

Part of neuron that connects to the muscle.

Part of the brain that helps you balance.

Your brain, spinal cord, and nerves make up this system.

Most important part of your brain that keeps your heart beating and lungs breathing.

Long bundle of nerves that go from your brain and down your back.

Bone that protects your brain.

Ner...

Part...
tempera...

Cells that ma...

Chemicals released...
are good fo...

Largest part of your brain...
thinking, moving an...

Branches on neurons that ta...
neurons.

Brain and spinal cord.

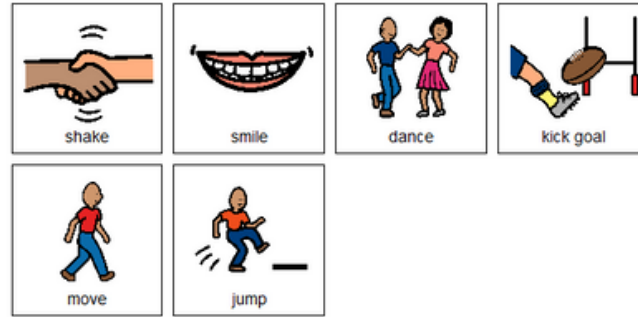
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Peripheral Nervous System

Errorless version

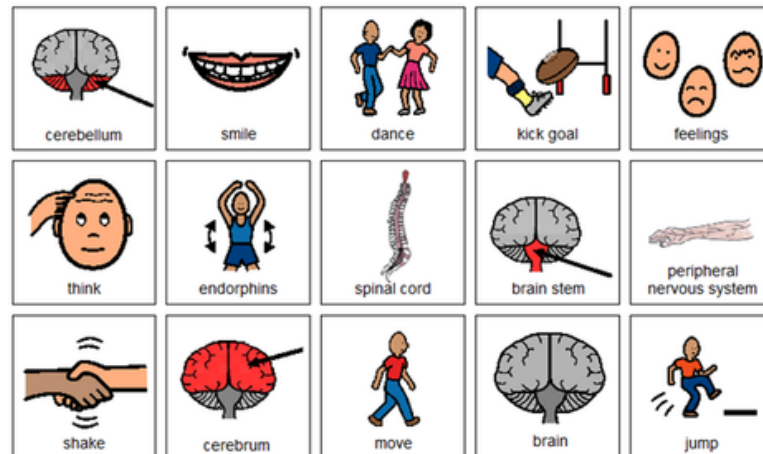
Peripheral Nervous System

Place the following in the circle map on previous page.



Peripheral Nervous System

Place the following in the circle map on previous page
ONLY IF correct.

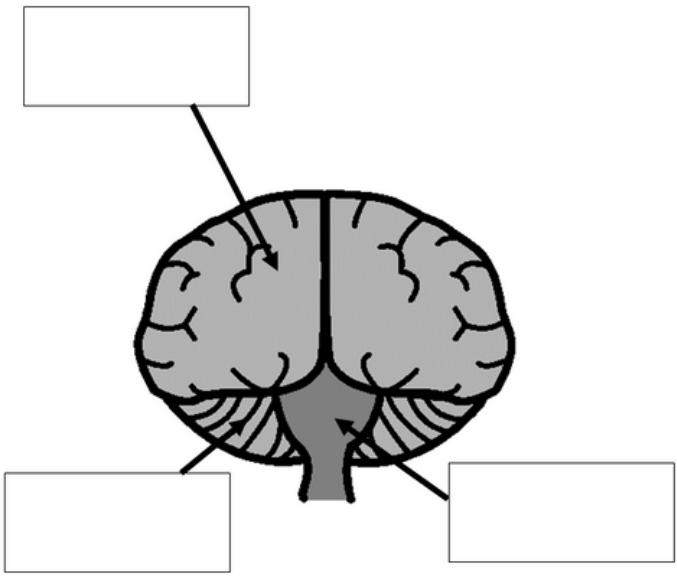


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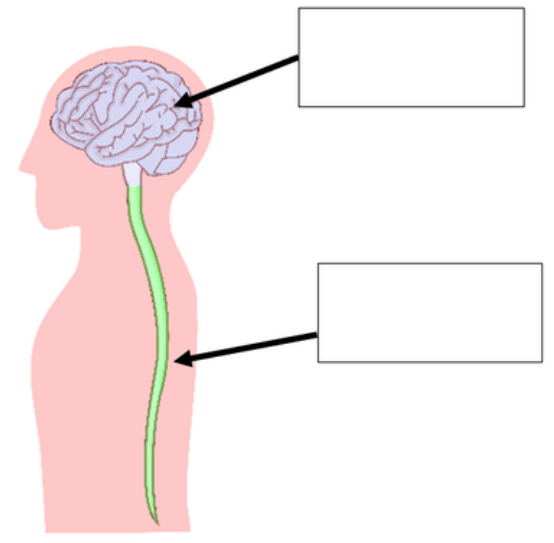
There are 3 circle maps reviewing the different parts of the nervous system.

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

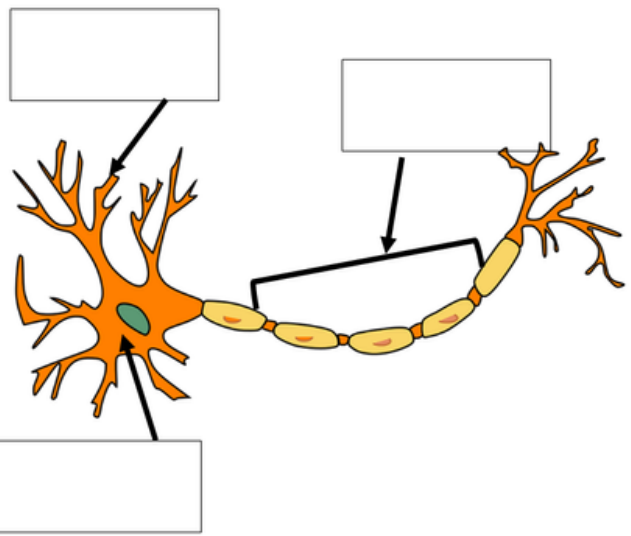
- One is errorless
- One has wrong answers mixed in students will have to set aside



cerebrum	cerebellum	brain stem
----------	------------	------------



brain	spinal cord
-------	-------------





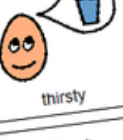
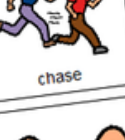



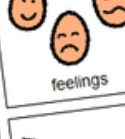

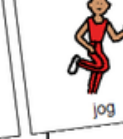

axon	dendrites	cell body
------	-----------	-----------

There are 3 activities where students label parts of the nervous system. Suggestions for differentiation and answer keys are included.













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 central nervous system	 peripheral nervous system			
 think	 dance	 thirsty	 chase	 breathing
 hungry	 ride bike	 fishing	 feelings	 hike
 jump rope	 senses	 jog	 heart beating	 balance















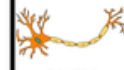




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 cerebrum	 cerebellum	 brain stem		
 think	 controls muscles	 memory	 heart beating	 balance
 breathing	 largest part	 senses	 feelings	 most important

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There are 2 sorting activities where students can compare different functions of the nervous system. Suggestions for differentiation are included.

Nervous System










 endorphins	 brain		 spinal cord		 neuron
		 myelin	 endorphins		 brain
		 neuron	 myelin		 endorphins
 myelin		 spinal cord			 reflex
 reflex			 neuron		 myelin
	 myelin			 brain	 spinal cord

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

 brain	 brain	 brain	 neuron	 neuron
 neuron	 reflex	 reflex	 reflex	 reflex
 myelin	 spinal cord	 spinal cord	 spinal cord	 endorphins
 endorphins	 endorphins			

Nervous System

			 spinal cord
	 neuron	 brain	
 myelin	 brain		 neuron
 neuron	 spinal cord		 b

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

There are 2 versions plus answer keys.



Nervous System

HRHHQVPVSI BXS VTVMTQL
 CRZWBGF EFGJSMYELINCA
 EEHINWMOIXPMPWKC BMR
 NFMUJLGUCORSMWADLTVM
 HLBXORHYLLKTDGGAXONC
 OEYCEREBRUMNKQXBGCSO
 AXIYOTTMSSPINALCORDA
 XVGSIOOPFMBAAAPRCARVO
 ENDORPHINSVQORZMIVPI
 OZLXONPTWOARABOFGYCI
 EUTNWLLXBRAINSTEMPSN
 OZXMXI IQREFLEXHPHAKR
 JAKGJQGGGHVWVGQRSOUS
 KCTKBRAINHVFEAVA JPLD
 WGQXMQR CEREBELLUMJLZ
 ROKCDJ IIGIQMLZIJHXTF
 ZLAQUXFXWDBNTLIBUNRE
 ZTQDKDENDRITESGFCBVY
 DHYPOTHALAMUSWVFYMLV
 TDSQSVYBONWQEFHVZCRG

hypothalamus	spinal cord	cerebellum	endorphins
dendrites	brain stem	cerebrum	reflex
myelin	reflex	brain	axon
skull			

Nervous System

HRHHQVPVSI BXS VTVMT
 CRZWBGF EFGJSMYELINCA
 EEHINWMOIXPMPWKC BMR
 NFMUJLGUCORSMWADLTVM
 HLBXORHYLLKTDGGAXONC
 OEYCEREBRUMNKQXBGCSO
 AXIYOTTMSSPINALCORDA
 XVGSIOOPFMBAAAPRCARVO
 ENDORPHINSVQORZMIVPI
 OZLXONPTWOARABOFGYCI
 EUTNWLLXBRAINSTEMPSN
 OZXMXI IQREFLEXHPHAKR
 JAKGJQGGGHVWVGQRSOUS
 KCTKBRAINHVFEAVA JPLD
 WGQXMQR CEREBELLUMJLZ
 ROKCDJ IIGIQMLZIJHXTF
 ZLAQUXFXWDBNTLIBUNRE
 ZTQDKDENDRITESGFCBVY
 DHYPOTHALAMUSWVFYMLV
 TDSQSVYBONWQEFHVZCRG

hypothalamus	spinal cord	cerebellum	endorphins
dendrites	brain stem	cerebrum	reflex
myelin	reflex	brain	axon
skull			

There is also a word search to work with vocabulary. If your students cannot do a word search, have them highlight the circle words on the answer key.

Nervous System

1. The spinal cord and make up the central nervous system.
2. When you raise your hand, you use nerves in your .
3. protects your brain.
4. is when your muscle moves without talking to your brain.
5. There are main parts to the brain.

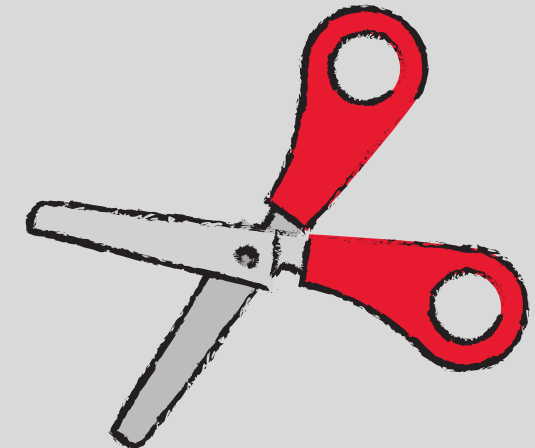
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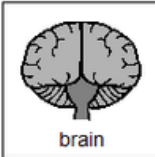

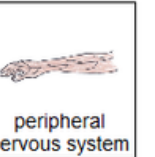
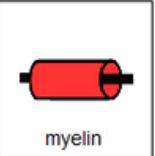

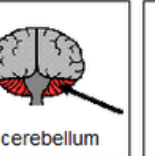
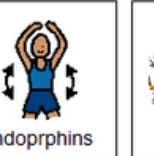
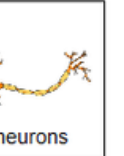
Nervous System

6. When you balance, you use the .
7. Cells that make up the nervous system are called .
8. is a fatty layer that protects the nerves and helps signals travel faster.
9. are released when you exercise and are good for your brain.
10. It is important to your brain from injury.

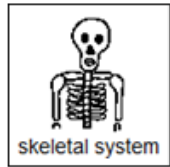
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There are 2 fill-in-the-blank worksheets. These allow you to review and focus on facts from the book and identify areas for review prior to the assessment.

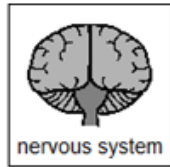


Page 1	 reflex	<input type="text"/>	 brain	 skull	 peripheral nervous system
Page 2	 myelin	 protect	 cerebellum	 endorphins	 neurons

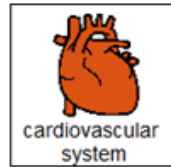
1. What is the name of system that is made up of brain, spinal cord and nerves?



skeletal system



nervous system

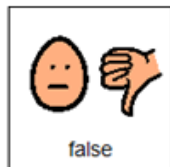


cardiovascular system

2. True or False. There is a law that says public places must be accessible to people in wheelchairs.



true

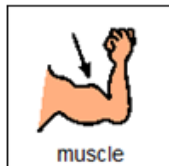


false

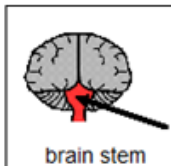


I don't know

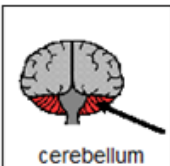
3. Circle all the parts of the brain:



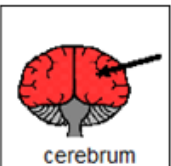
muscle



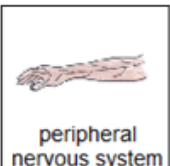
brain stem



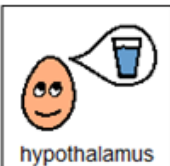
cerebellum



cerebrum

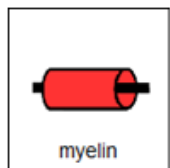


peripheral nervous system

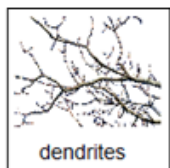


hypothalamus

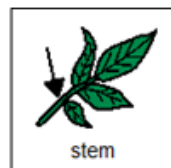
4. Long branches on a neuron that send messages are:



myelin

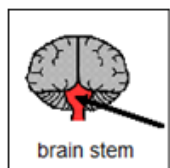


dendrites

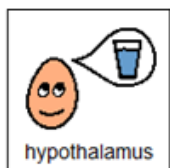


stem

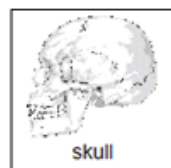
5. The part of your brain that keeps your heart beating is:



brain stem



hypothalamus



skull

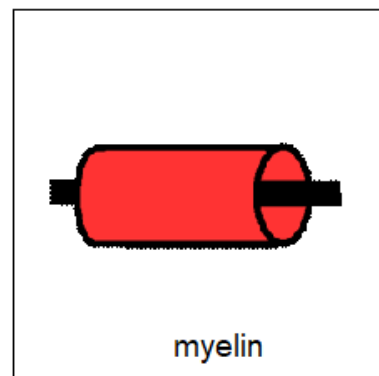
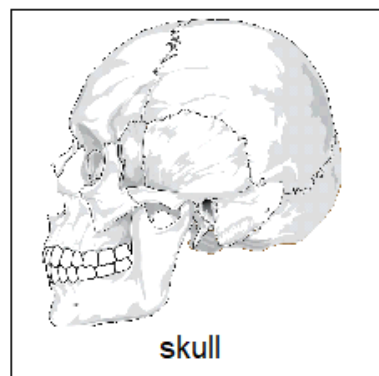
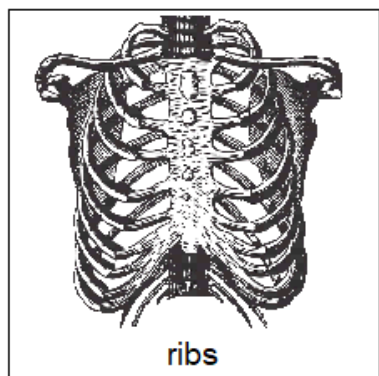
There is a 10 question assessment.

There are 3 versions. This version has 10 questions with 3 picture choices for each question.

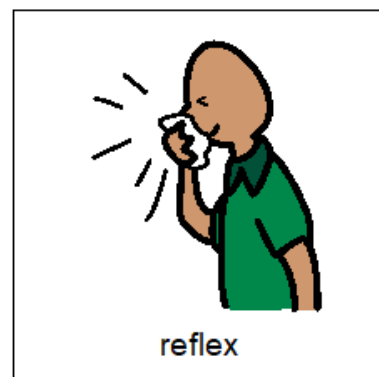
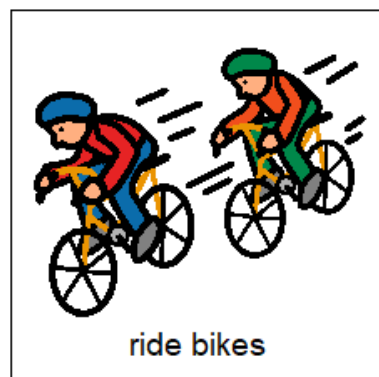
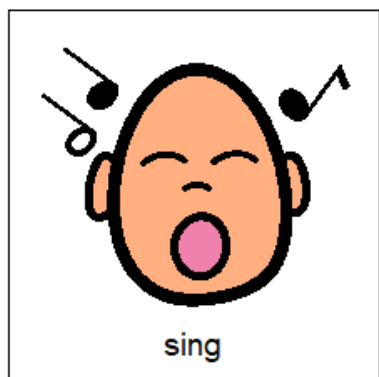
Answer key included.

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

Q 6



Q 7



With this version, you cut out the answer choices and glue them on index cards. Ask the student the question, and they point to the correct answer.

1. What is the name of system that is made up of brain, spinal cord and nerves?
 - A. Skeletal system
 - B. Nervous system
 - C. Cardiovascular system
2. True or False. There is a law that says public places must be accessible to people in wheelchairs.
 - A. True
 - B. False
 - C. I don't know
3. Circle all the parts of the brain:
 - A. Muscle
 - B. Brain stem
 - C. Cerebellum
 - D. Cerebrum
 - E. Brain stem
 - F. Peripheral nervous system
4. Long branches on a neuron that send messages are:
 - A. Myelin
 - B. Dendrites
 - C. Stem
5. The part of your brain that keeps your heart beating is:
 - A. Brain stem
 - B. Hypothalamus
 - C. skull
6. This bone protects your brain:
 - A. Ribs
 - B. Skull
 - C. Myelin

This is your traditional multiple choice version. It can also be used as a recording sheet if your students are using the version with index cards.

Listen to the book on the Nervous System read aloud

The **spinal cord** is a long bundle of nerves that runs down your back and takes signals from your brain to your muscles and back again.



Christa Joy, Special Needs for Special Kids

Listen to the book on Accessibility read aloud

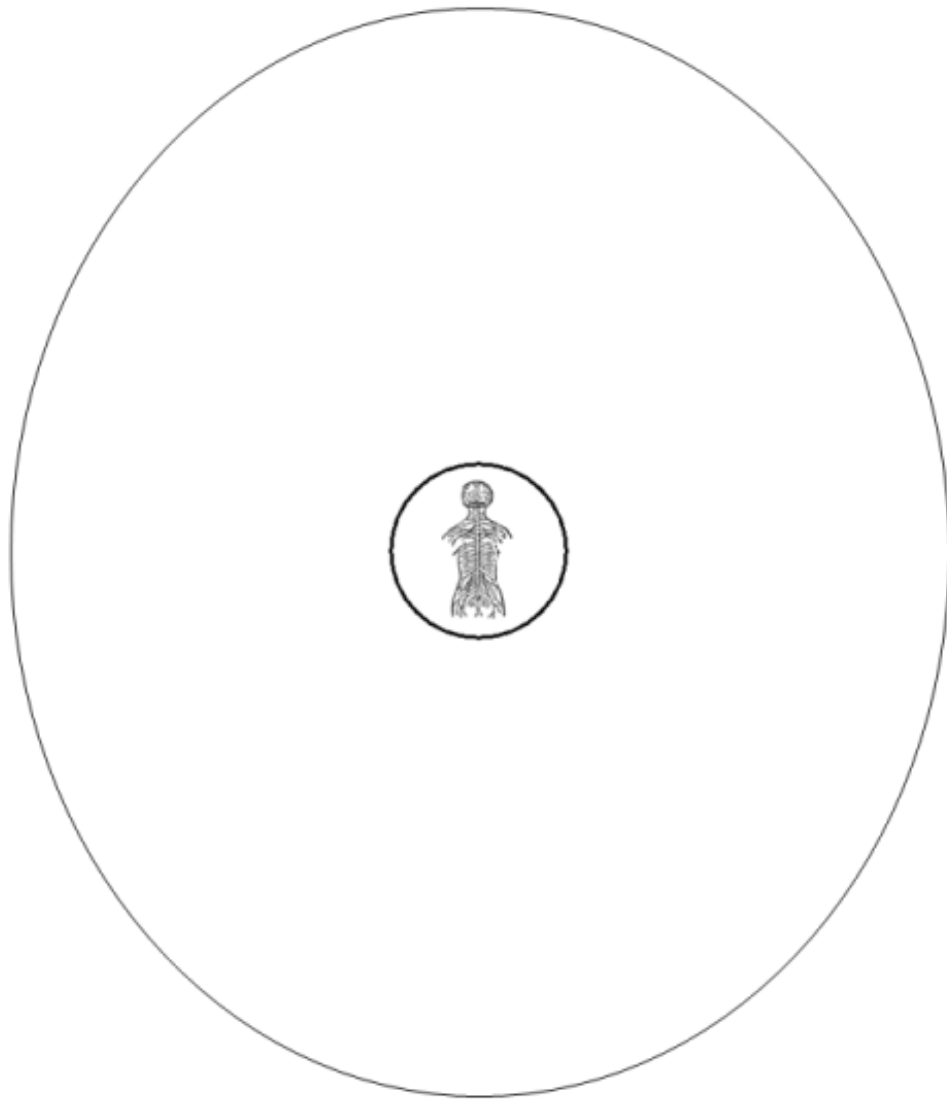
Because a wheelchair moves on wheels, it needs a smooth surface to travel on, like a ramp.

















Christa Joy, Special Needs for Special Kids

This unit also includes digital versions of the activities.

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



Place the following in the circle map about the nervous system.

 peripheral nervous system	 brain	 hypothalamus	 cerebrum	 brain stem
 think	 move	 central nervous system	 neurons	 spinal cord
 endorphins	 feelings	 reflex	 cerebellum	

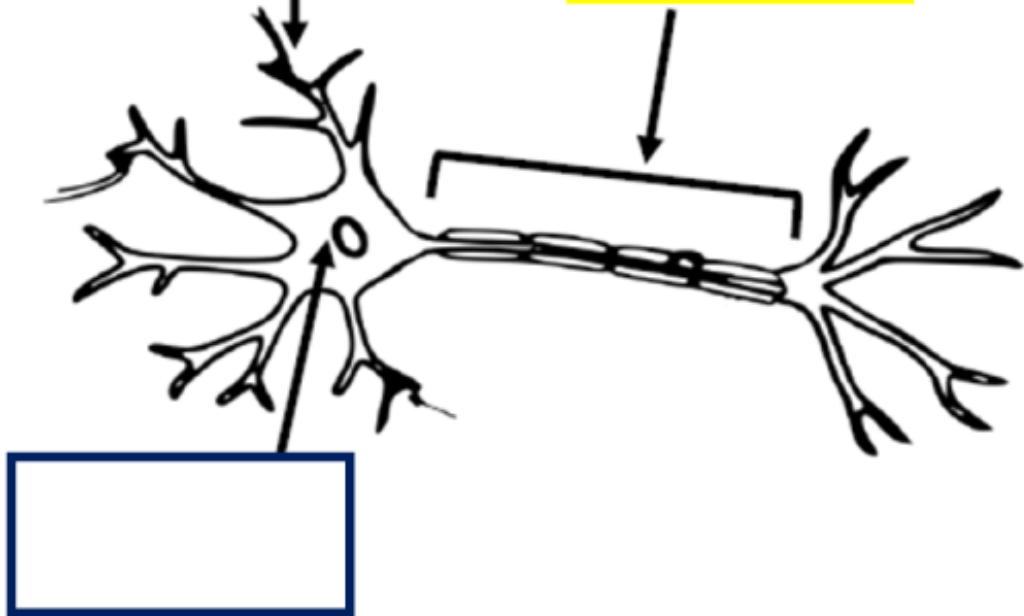
Christa Joy, Special Needs for Special Kids
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Each activity is set up so students can click and drag answers. No typing is required.



[Red box for labeling]

[Yellow box for labeling]



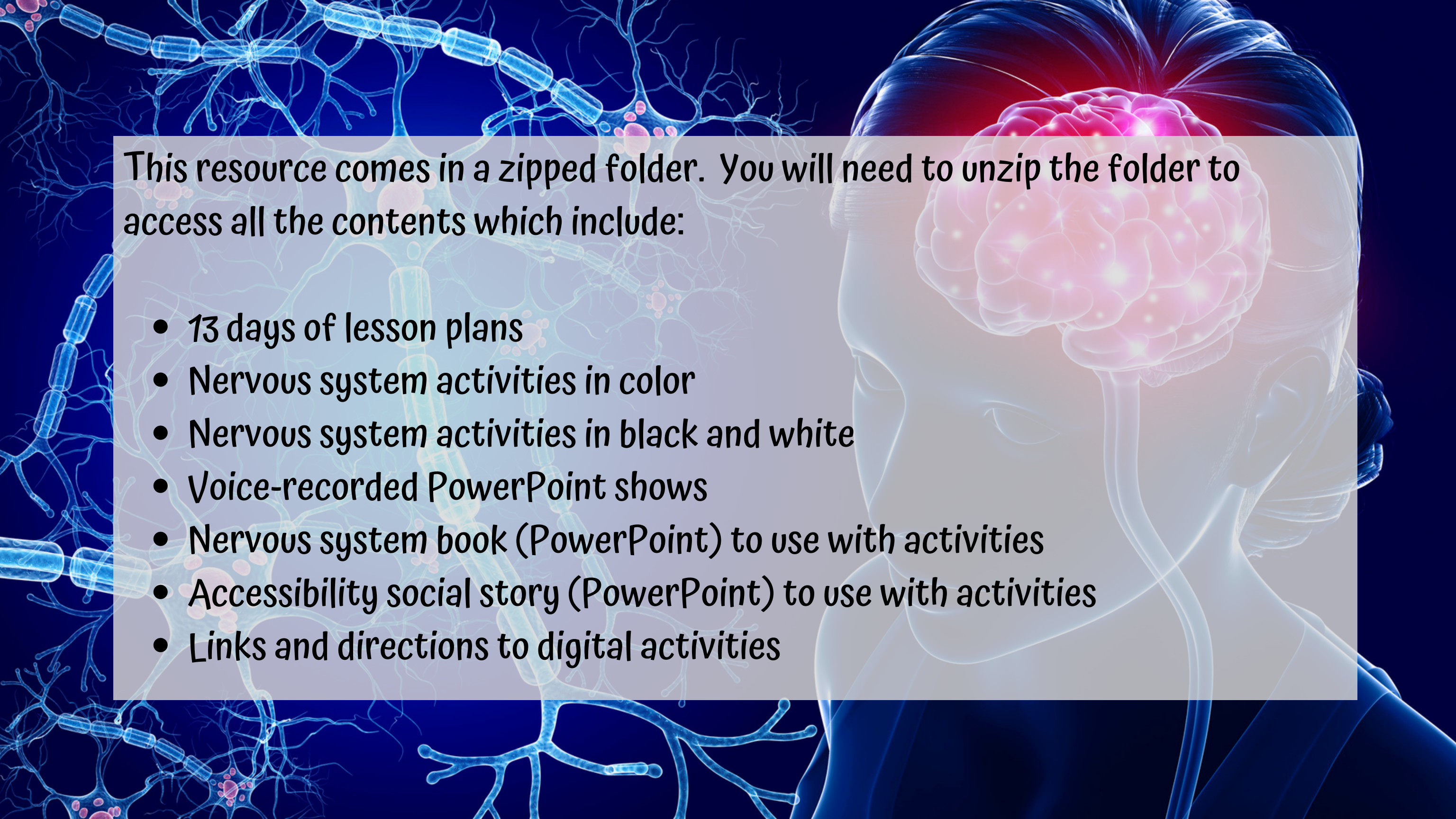
Label each part correctly.

axon

dendrites

cell body

The second set of slides uses color for differentiation and extra support for students who may need it. Mix and match slides from both sets to make the perfect set for each student.



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**
- **Nervous system activities in color**
- **Nervous system activities in black and white**
- **Voice-recorded PowerPoint shows**
- **Nervous system book (PowerPoint) to use with activities**
- **Accessibility social story (PowerPoint) to use with activities**
- **Links and directions to digital activities**