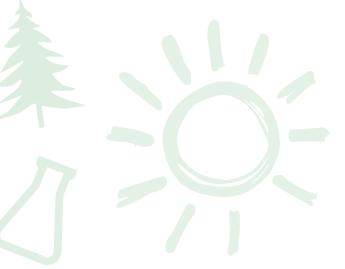


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STUDENT HANDOUTS

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✓ 6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC4517 Senses, Nervous System & Respiratory System
- Enter pass code CC4517D for Activity Pages.



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👿 Before	You	Read
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NAME:

The Nervous System -Spinal Cord and Nerves

		mplete each lp you.	sentence w	rith a ter	m from the list. l	Jse a dictionary to
		neuron	brain	tissue	spinal cord	vertebra
	a)	A single bone	e in the spin	e is call	ed a	
	b)		is and	other wo	ord for nerve ce	
	c)	The		ca	rries messages t	o and from the brain.
	d)	Our		_ is prote	ected inside our	skull.
,	e)	A group of c	ells that wo	rk toget	er to do a spec	cific job are called
			·	4		
~	~~	~~~~~	~~~~~		·········	
2.		Vhich word co eed a diction			e? Circle your	answer. You may
	a) Our spinal c	ord is	b	y the bones of o	ur spine.
			projec	ted	protected	
	b	The spinal cour back.	ord is a thick	<	of nerve c	ells that run down
		X	bun	dle	bubble	
	С	Our nerve o	ells carry		to and from (our brain.
			messag	es	messengers	
~	~~	ROOM COMPLETE		~~~~	~~~~~ `	~~~~~

After You	Read 🖊
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NAME:

Senses, Nervous System & Respiratory System CCP4517-2

The Nervous System -Spinal Cord and Nerve

$\sim\sim$	\sim	\sim	
1. Pu	t a c	he	ck mark (🗸) next to the answer that is most correct.
a)	Who	at is	the main job of the motor neurons?
I	0	A	bring messages to our senses
! !	0	В	make movement possible
l I	0	c	protect the spinal cord from damage
l I	0	D	control our emotions
b)	Whi	ich l	best describes the spinal cord?
l I	0	A	a long boney ridge
l I	0	В	a thick bundle of nerves
l I	0	c	a computer
	0	D	protected by our skull

2. Fill in each blank with a term from the list. Be careful! One term will be used twice. Two terms will be left over.

smell	brain	body	sensory	neurons	hear
three	spinal cord	IWO	messages	motor	
Nerve cell	s are also called	It is	their job to carry $_{ extstyle -}$	b	etween the
c	and the	Th	e messages travel	along our	 e
Our nervo	us system is made of _	f	kinds of neurons	Sg	neurons
make mov	vement possible	h	neurons carry r	•	our senses.
Without th	ese we would not be	able to	drums	or	pizza.
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NAME:





The Nervous System -Spinal Cord and Nerves

e have read that the nervous system is like a computer network that sends messages to every part of our body. We know the brain controls the whole system. Now we'll learn about the other two important parts of the nervous system - the spinal cord and the nerves.

The Spinal Cord

The spinal cord is a thick bundle of nerve tissue that runs down back from the base of the brain. Information travels back and f between the brain and the nerves in the rest of the body along the

spinal cord. If our spinal cord was seriously injured, this two-way communication between our body and brain would stop. This is why our spinal cord is protected inside the bones of the spine, called vertebrae.



The Nerves

Nerve cells (also called **neurons**) have the job of carrying messages. They carry messages to and from the brain through the spinal cord to every part of the body. Nerve cells are connected to our spinal cord and to each other. They have tiny ends, like threads, so they can reach everywhere in our body.

There are two main types of nerves. The first are called **motor nerves** (or **motor neurons)**. These nerves work with our muscles to make movement possible. When you think, "I want to pet my dog", you can do it because your motor nerves have "talked" to your muscles They have **communicated** the message.

The second kind of nerves are called **sensory nerves** (or **sensory neurons**). These nerves bring messages from our senses - ears (hearing), eyes (seeing), tongue (tasting), nose (smelling), and skin (touching) - to our brain. Without these nerves you would not be able to feel the soft fur of a kitten or hear your favorite music.

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enses, Nervous System & Respiratory System CCP4517-2

NAME:		After You Read 🥏
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The Nervous System -Spinal Cord and Nerves

3. Why is it important that our spinal cord is protected?

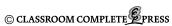
4. List three activities you wouldn't be able to do if yo	u die	dn'	thave the use of your
motor nerves.			

5. Below are some words from the reading. Write each word beside its meaning.

neuron	nerve	vertebrae	senses	protect
		a) the bones of t	he spine	
			arry messages	
		c) to keep sometd) seeing and he	· ·	onles of these
		e) another word f	_	ipies of mese

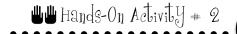
Extension & Application

- 6. Christopher Reeve was a famous actor who became paralyzed when his spine was injured in an accident. Do some research to find out more about Christopher Reeve. Try to find out how his spine was injured and how his life changed when he was paralyzed. Also find out how he helped other people with spinal injuries.
- 7. Sledge hockey is a popular sport played at the Paralympics. Only people with damaged spines can play this sport. Research sledge hockey to find out how it is played at the Paralympics. Then, compare it to the way professional hockey is played. Record your information in a Venn Diagram. What is unique to each game? What is the same in both?









How Much Air?

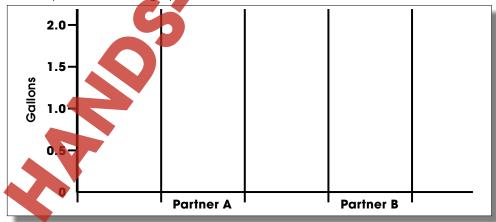
We have learned that when you INHALE, your lungs fill with ai and that when you EXHALE, air is pushed out of your lung This activity will show you how much air your lungs can hold.

Work with a partner.

FOR THIS ACTIVITY, you will need: • a shallow tub • a 2-gallon pop bottle, filled with water • a flexible tube • a marker

STEPS:

- 1. Set up your materials as follows. (Your teacher may do this for you.)
 - Make sure the bottle is filled up with water so there is no air in it.
 - Put one end of the tube in the bottle of water.
 - Partner A holds the bottle right-side up over the tub. (No water should fall out if you hold it up straight.)
 - d. Partner B holds onto the other end of the tube.
- 2. Partner B takes a deep breath in, and then blows into the tube. Keep blowing into the tube until you have run out of air. (As you do this, you will see water coming out of the bottle. The air pushes the water ou
- 3. The air that you will see inside the bottle is the air that was in your lungs. We call this your lung capacity. With your marker, put a small line on the bottle where the water begins.
- 4. Switch roles and repeat Steps 1 to 3
- 5. Record your results on a graph like the one below.



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NAME: _



Senses, Nervous System & Respiratory System CCP4517-2

۱A	ME:	After You Read 🗲	
\n:	Part C	_	¥
•	Name the does.	three main parts of the nervous system. Describe what each part	6

Name one part of the brain. Describe where it is in the brain, one main job it has.



on body. Describe what they Name one of the two kinds of nerves in the do in the body.



Describe what happens with **exygen** and **carbon dioxide** in the respiratory system. Use the terms **inhale**, **exhale**, **lungs** and **bloodstream** in your answer.



Describe how our body feels pain. Use the terms skin, sensory receptors, **message** and **brain** in your answer. Why is it important that we can feel pain?



SUBTOTAL: /18

es, Nervous System & Respiratory System CCP4517-2

NAME:

After You Read



Word Search

Find all of the words in the Word Search. Words are written horizontally, vertically, or diagonally, and some are even written backwards.

nervous system lens motor nerves cerebellum retina brain electrical signal windpipe cochlea respiratory system optic nerve iris vertebrae spinal c pupil cerebrum neuron sensory receptor sight eardrum focus

vibration ar canal blink auricle pressure pain sensation

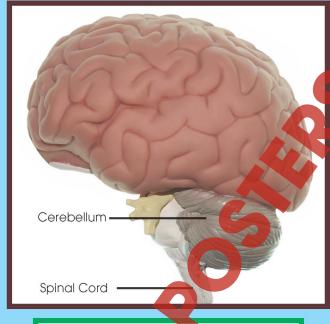
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S	Р	Α	S	Δ	\cup	Е	R	Ш	В	R	J	S	Ø.	Z	W	Е	R
Τ	I	U	Е	R	J	S	S	Е	R	P	V	В	٦	Е	-	Ι	F
U	Υ	G	Р	_	0	Z	Χ	\cup	A	U	R		\cup	Ш	Е	Α	D
В	٧	С	Н	_	Χ	U	Υ	T	\preceq	R	E	W	Ø	Е	Α	S	Р
М	С	K	K	T	L	L	Z	Х	N	C	V	В	Ν	С	М	Α	S
R	Е	S	Р	-	R	Α	T	0	R	Υ	S	Υ	S	T	Ε	М	Q
W	R	Ε	V	Ε	R	T	E	В	R	Α	E	R	T	R	Υ	U	- 1
Ζ	Е	Α	R	С	Α	N	A	L	Χ	С	٧	В	Ν	-	М	Р	Ν
Χ	В	С	٧	В	Ν	M	Q	W	Е	R	T	Υ	Е	С	U	-	0
Ζ	Е	Χ	D	С	С	0	C	Н	L	Е	Α	V	Α	Α	٧	Ν	1
Q	L	W	R	Е	R	(Y	U	- 1	0	R	М	R	L	Р	0	T
Α	L	S	0	N	E	U	R	0	Ν	Е	Е	D	D	S	F	- 1	Α
Z	U	Χ	С	C	V	В	Ν	М	Ν	T	В	С	R	-1	٧	T	R
Q	М	W	A	E	R	T	Υ	С	S	Υ	L	Α	U	G	Z	Α	В
Z	W	E	Α	X	C	٧	-	Υ	В	S	1	Q	М	Ν	W	S	- 1
Χ	С	V	N	В	D	T	S	F	G	Н	N	Z	Χ	Α	С	Ν	V
С	Q	W	7	E	Р	S	D	Z	Χ	С	K	V	Z	L	Χ	Е	S
L	Q	W	Р	0	U	Е	Χ	С	D	F	С	V	В	Ν	М	S	R
S	Е	Ν	S	0	R	Υ	R	Е	С	Е	Р	T	0	R	Q	Е	F
Α	- 1	Ν	V	S	D	F	S	Е	V	R	E	Ν	R	0	T	0	М
Χ	С	R	S	V	В	Ν	М	Q	W	Е	G	Н	J	-1	С	Α	S
J	Е	Н	-1	W	-1	Ν	D	Р	- 1	Р	Е	G	Ν	U	F	D	S
Ν	Χ	С	С	S	٧	F	G	Н	J	K	L	Α	S	Q	W	Е	С

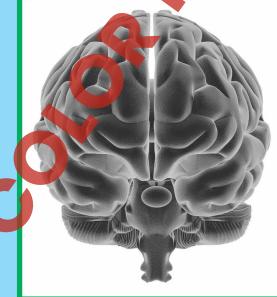
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Senses, Nervous System & Respiratory System CCP4517-2

Parts of the Brain







NAME:		

After You Read



The Nervous System Spinal Cord and Nerves

3	Why is	it	important	that	Our	spinal	cord	jς	protected?
J.	VVIIV IS	11		mai	Oui	3DII IQI	COIG	ıo	DIDIECIEU:

- **4.** List **three** activities you wouldn't be able to do if you didn't have the use of your motor nerves.
 - 5. Below are some words from the reading. Write each word beside its meaning.

	neuron nerve vertebrae senses p	rotect
--	---------------------------------	--------

- a) the bones of the spine
- **b)** _____ cells carry messages
- c) to keep something safe

____d) seeing and hearing are examples of these

e) another word for "nerve cell"

Extension & Application

- **6. Christopher Reeve** was a famous actor who became **paralyzed** when his spine was injured in an accident. Do some research to find out more about Christopher Reeve. Try to find out how his spine was injured and how his life changed when he was paralyzed. Also find out how he helped other people with spinal injuries.
- **7. Sledge hockey** is a popular sport played at the **Paralympics**. Only people with damaged spines can play this sport. Research sledge hockey to find out how it is played at the Paralympics. Then, compare it to the way professional hockey is played. Record your information in a Venn Diagram. What is unique to each game? What is the same in both?
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Senses, Nervous System & Respiratory System CCP4517-2

Because it allows for communication between our brain and our body 4. Answers will vary – activities must involve muscles 5. Answers will vary a) vertebrae b) nerve protect d) senses

SWER KEY

Answers will vary

Answers will vary



Answers will varv

depending on

resources used

e) neuron



