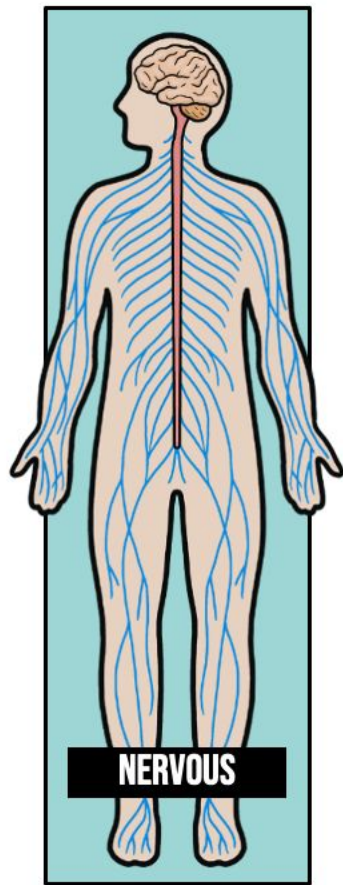


HUMAN BODY SYSTEMS

NERVOUS SYSTEM



HUMAN BODY SYSTEMS



NERVOUS SYSTEM

Lesson Objectives

Lesson Objective 1

Lesson Objective 2

Lesson Objective 3

Optional Videos

Lesson Review Activity



NERVOUS SYSTEM

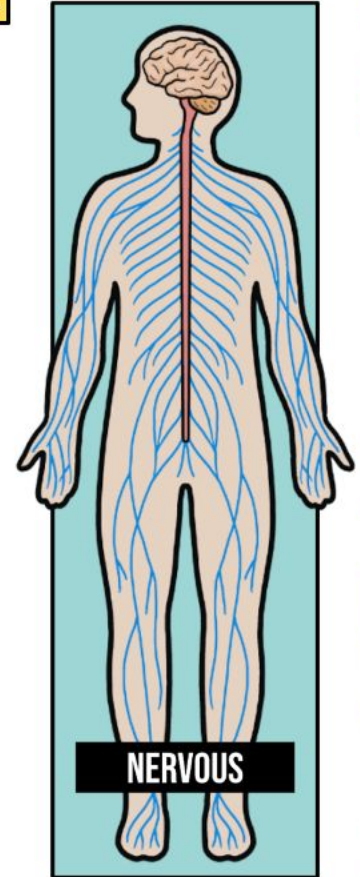
3



Lesson Objectives #1-3

1. Describe the main **function** of the **nervous system**.
2. Identify the main **parts** of the **nervous system** and describe their **functions**.
3. Identify the main **parts** of the **brain** and describe their **functions**.

PLAN FOR IT!



NERVOUS SYSTEM

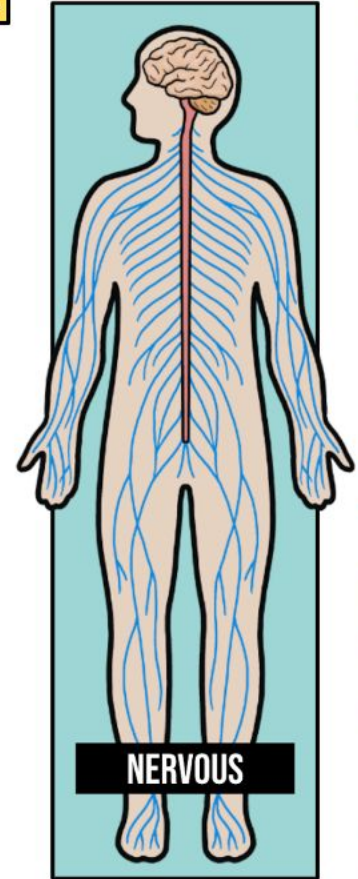
4



Lesson Objective #1: Describe the main function of the nervous system.

- How do you remember the way to your best friend's house?
- How do you know when you're hungry?
- Why do you feel pain when you stub your toe?
- Why don't you have to remind yourself to breathe?

TALK ABOUT IT!



NERVOUS SYSTEM

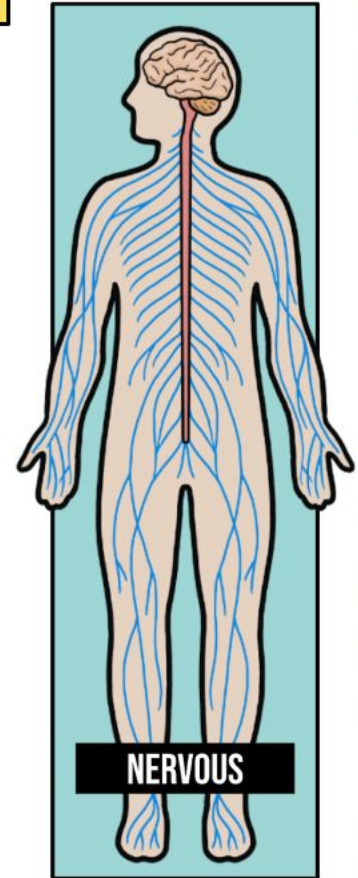
5



Lesson Objective #1: Describe the main function of the nervous system.
(p. 1)

The **nervous system** sends messages back and forth between the **brain** and other parts of the body. It controls the ability to move, breathe, see, think, and feel.

WRITE/DRAW IT!



NERVOUS SYSTEM

6

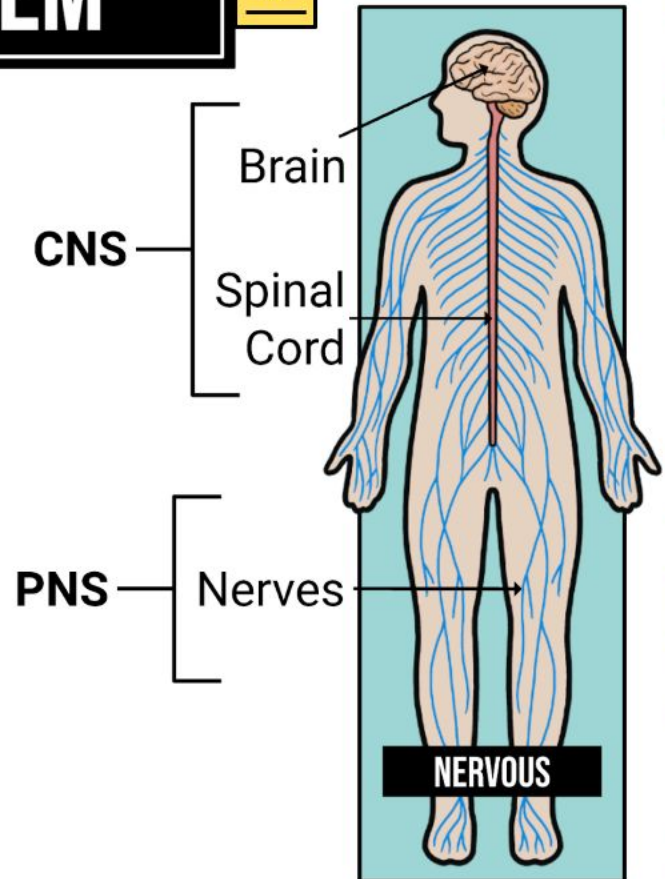


Lesson Objective #2: Identify the main parts of the nervous system and describe their functions. (p. 1)

The human body's **nervous system** is divided into two subsystems.

- **Central Nervous System (CNS):** Includes the **brain** and the **spinal cord**
- **Peripheral Nervous System (PNS):** Includes the **nerves**

WRITE/DRAW IT!



NERVOUS SYSTEM

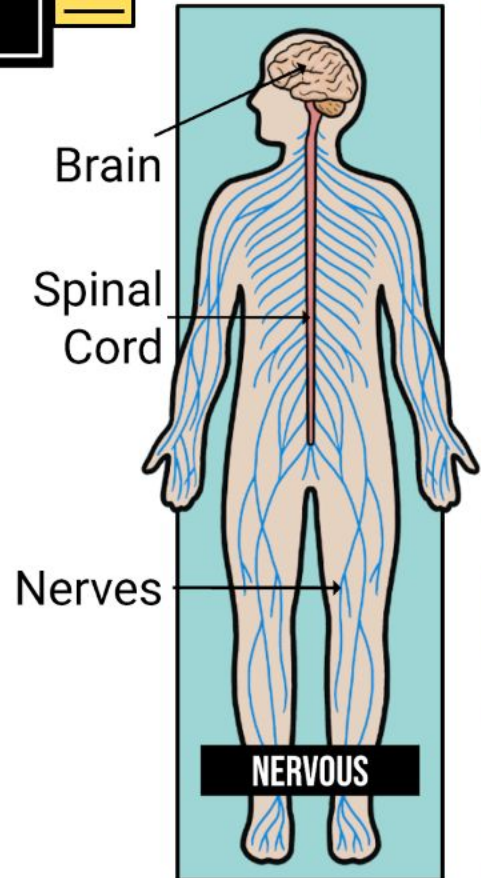
7



Lesson Objective #2: Identify the main parts of the nervous system and describe their functions. (p. 1)

- **Brain:** An **organ**; the control center of the body that sends and receives signals to and from the body
- **Spinal Cord:** A long bundle of **nerves**; like a superhighway that carries messages between the **brain** and the rest of the body
- **Nerves:** A bundle of nerve fibers; send messages to and from the **brain**

WRITE/DRAW IT!

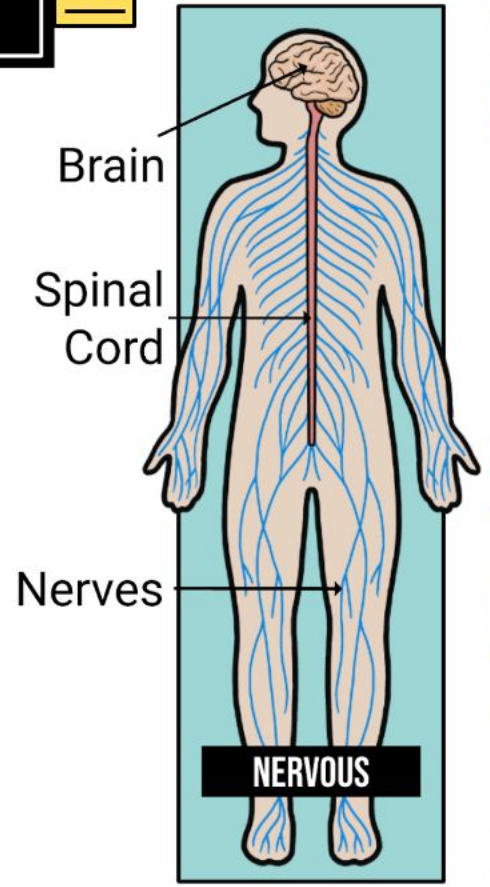




NERVOUS SYSTEM

Click the **spinal cord** to take a closer look!

CLICK IT!



NERVOUS SYSTEM

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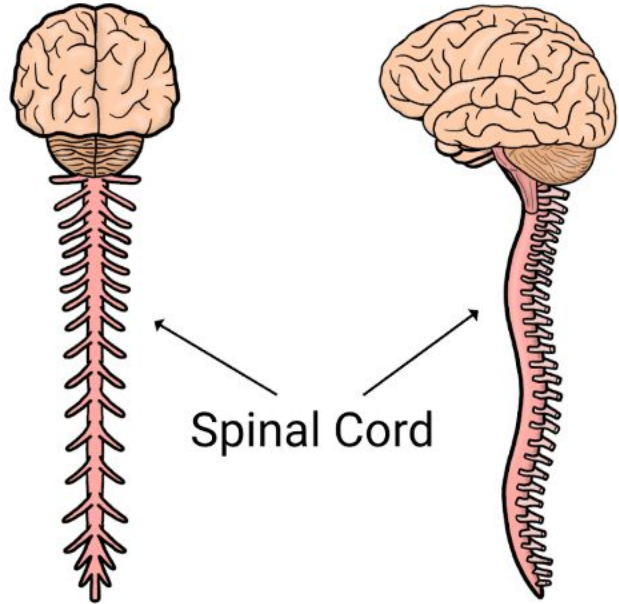
THE SPINAL CORD



Lesson Objective #2: Identify the main parts of the nervous system and describe their functions. (p. 1)

The **spinal cord** connects the **brain** to the body, helps you move, and carries messages throughout the body.

WRITE/DRAW IT!



(Front View)

(Side View)

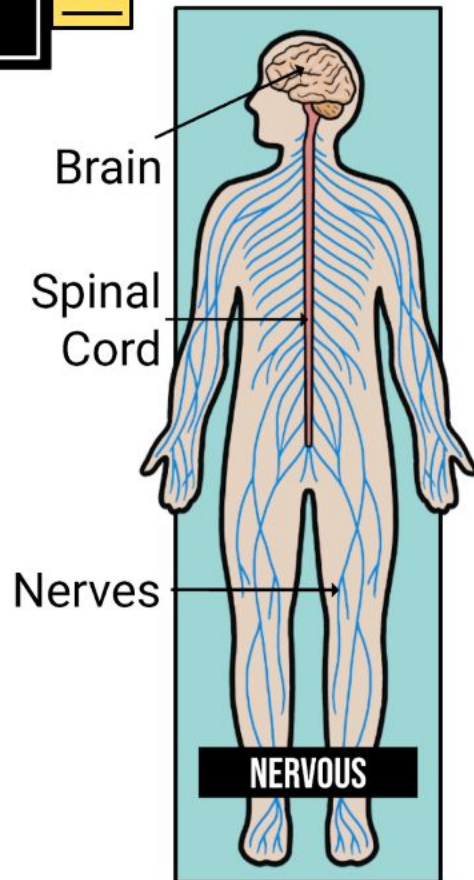


NERVOUS SYSTEM

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Click the **nerves** to take a closer look!

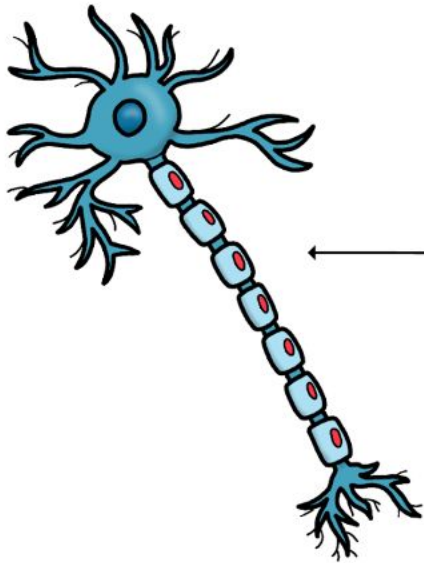
CLICK IT!





NERVOUS SYSTEM

THE NERVES



← Nerves



Lesson Objective #2: Identify the main parts of the nervous system and describe their functions. (p. 2)

Nerves carry messages back and forth between the **brain** and other parts of the body.

WRITE/DRAW IT! 

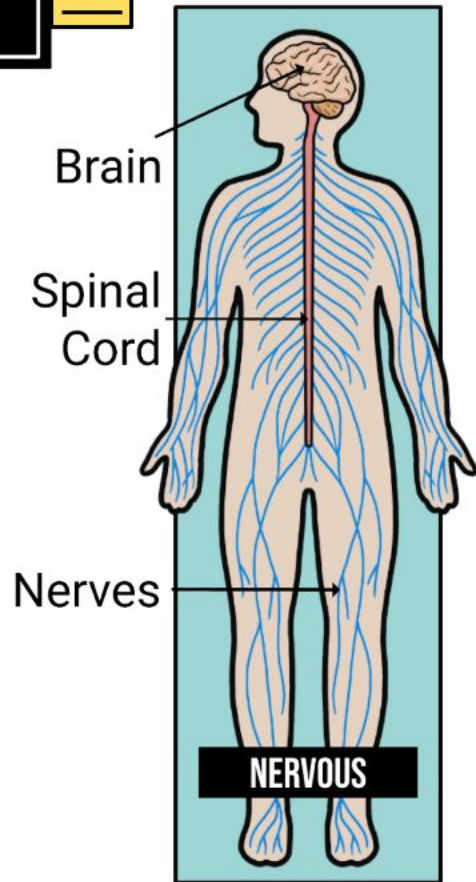


NERVOUS SYSTEM

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Click the **brain** to take a closer look!

CLICK IT!

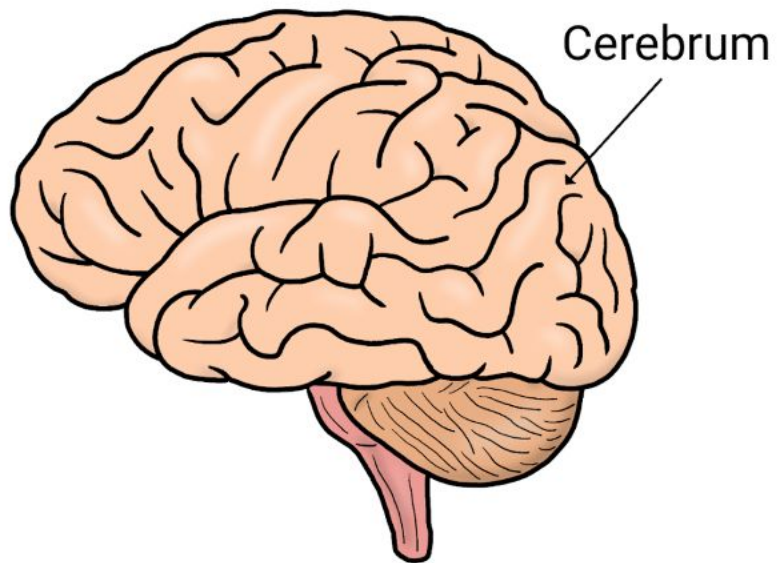




NERVOUS SYSTEM

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THE CEREBRUM



(Side View)



Lesson Objective #3: Identify the main parts of the brain and describe their functions. (p. 2)

The **cerebrum** controls thinking, learning, and feeling emotions; it also controls your **voluntary muscles**, the ones that move when you want them to.

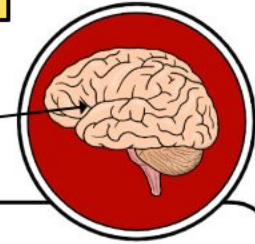
WRITE/DRAW IT! 



NERVOUS SYSTEM

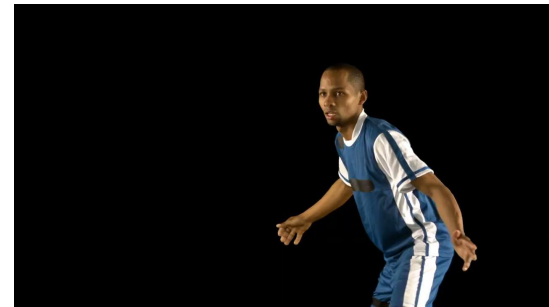
14

Cerebrum



Your **cerebrum** makes it possible for you to dance, jump, kick a soccer ball—many things!

TAKE NOTE!

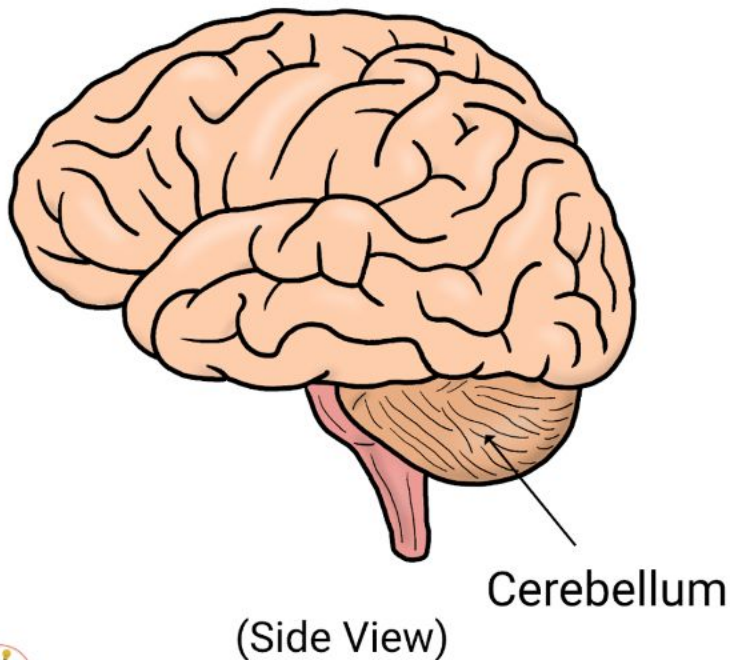




NERVOUS SYSTEM

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THE CEREBELLUM



Lesson Objective #3: Identify the main parts of the brain and describe their functions. (p. 3)

The **cerebellum** controls balance and coordination (your **muscles** working together).

WRITE/DRAW IT!



NERVOUS SYSTEM

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Cerebellum

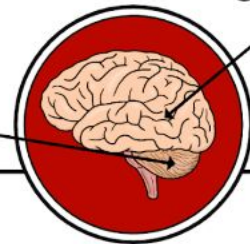
Your **cerebellum** works with your **cerebrum** by controlling balance, movement, and coordination (how your **muscles** work together)!

TAKE NOTE!



NERVOUS SYSTEM

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Cerebrum

Cerebellum

For example, to pick up a pencil, your **cerebrum** sends the signals to the **muscles** in your arm, and your **cerebellum** controls your movements, so your hand goes right to the pencil without missing.

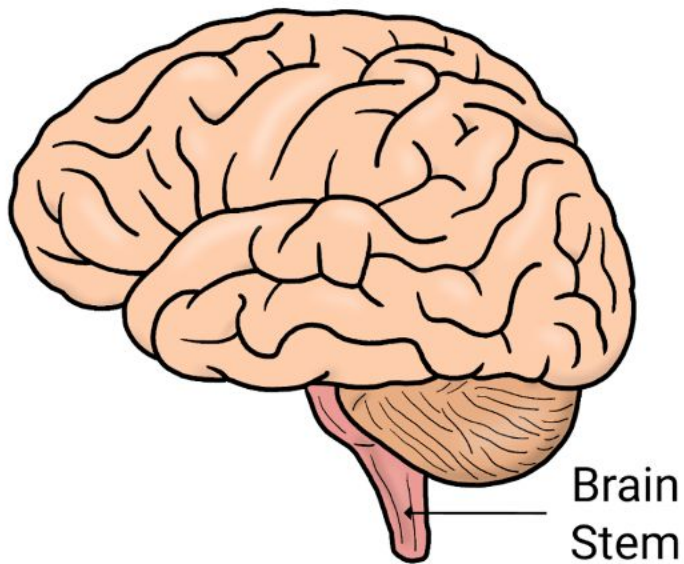
TAKE NOTE!



NERVOUS SYSTEM

18

THE BRAIN STEM



(Side View)



Lesson Objective #3: Identify the main parts of the brain and describe their functions. (p. 4)

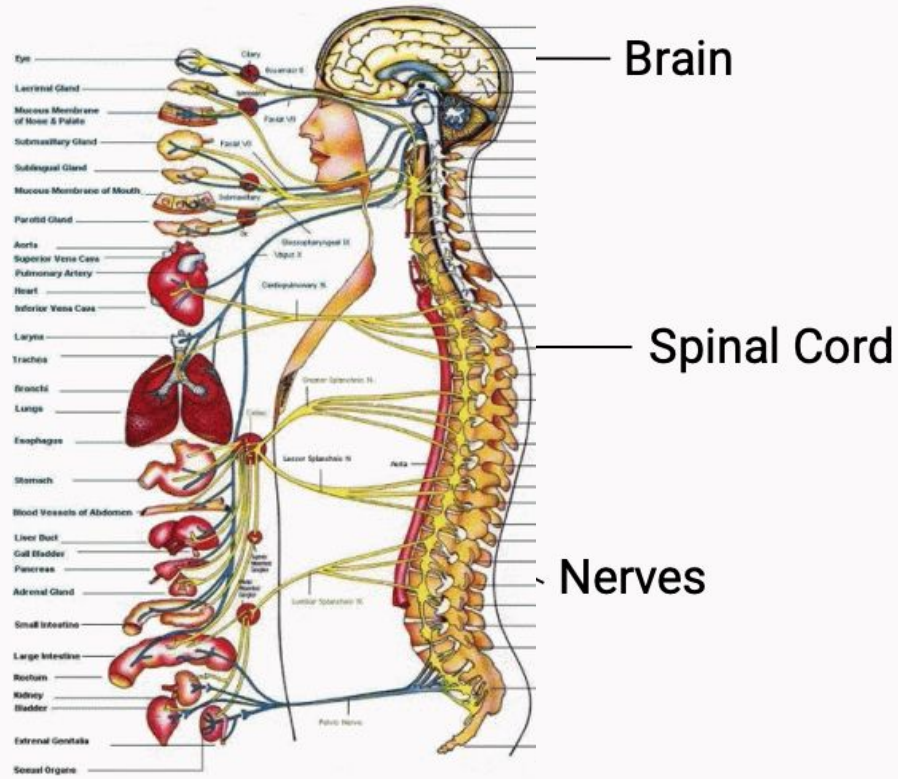
The **brain stem** controls **involuntary muscle functions** (muscles you don't control) like breathing and heart rate.

WRITE/DRAW IT!





NERVOUS SYSTEM

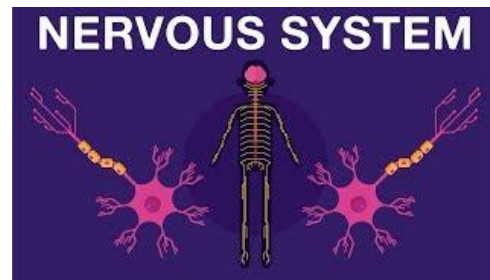
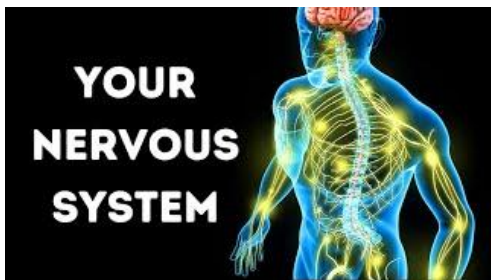




NERVOUS SYSTEM

20

OPTIONAL VIDEOS



Watch the videos above to learn more about the nervous system!

CLICK IT!



NERVOUS SYSTEM

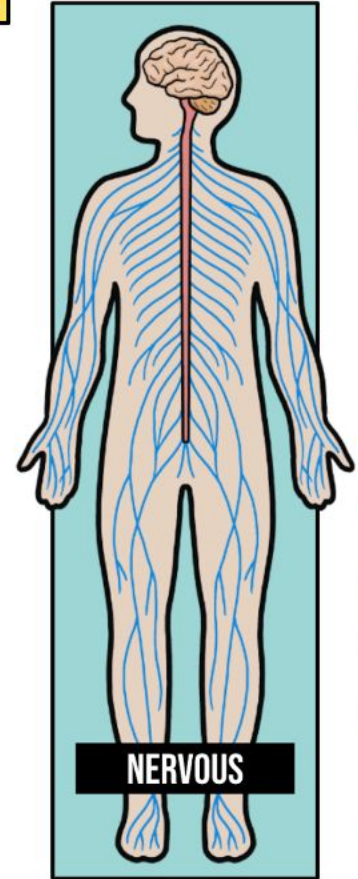
21



Lesson Objectives #1-3

1. Describe the main **function** of the **nervous system**.
2. Identify the main **parts** of the **nervous system** and describe their **functions**.
3. Identify the main **parts** of the **brain** and describe their **functions**.

PLAN FOR IT!



NERVOUS SYSTEM

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Brain Dump Review Activity (p. 4)

1. For 2 minutes, write on your note page (under **Brain Dump Review Activity**) everything you remember from today's lesson to this point.
2. When time is called, find your discussion partner.
3. For 4 minutes, discuss with your partner what each of you wrote on your note page.
4. When time is called, return to your seat.

REVIEW IT!

