



PLTW Virtual Learning

Medical Detectives

Lesson 24

May 7, 2020



7 & 8 Grade Medical Detectives Lesson: May 7, 2020

**Objective/Learning Target:
Lesson 24, Part 2**

Students will be able to explain and identify different parts of the brain.

Warm-Ups:

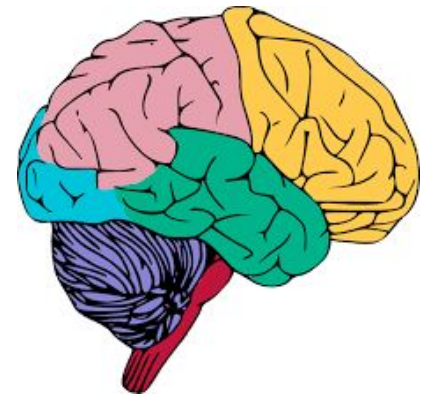
Quick Write:

As we started learning in the last lesson our brain is a magnificent part of our body and is the control center of our bodies. In this lesson we're going to learn more about the brain, its major structures and functions.

1. Can you name the four major regions the cerebral cortex is divided into?
2. What is the largest part of the brain?
3. What part of the brain wakes you up in the morning?

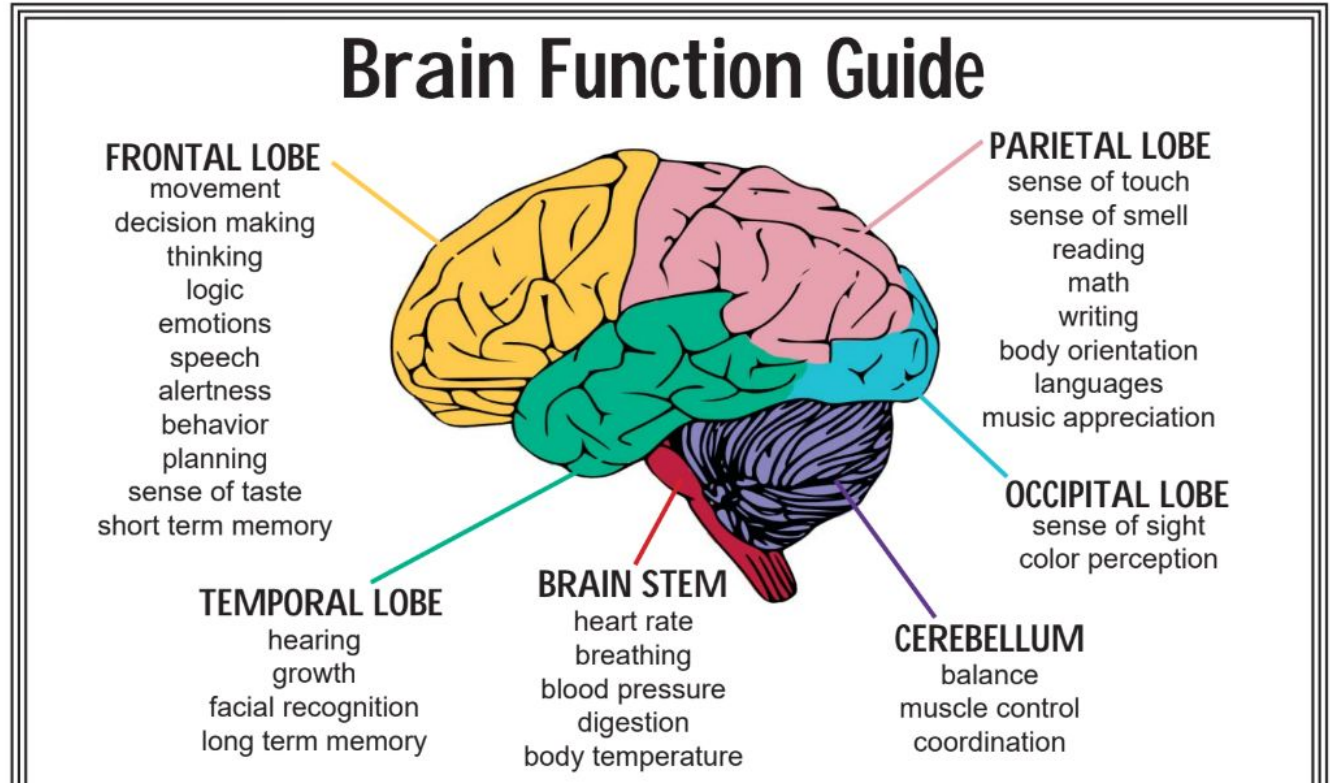
Take a minute to write **WHAT YOU KNOW!**

[One Minute Timer](#)



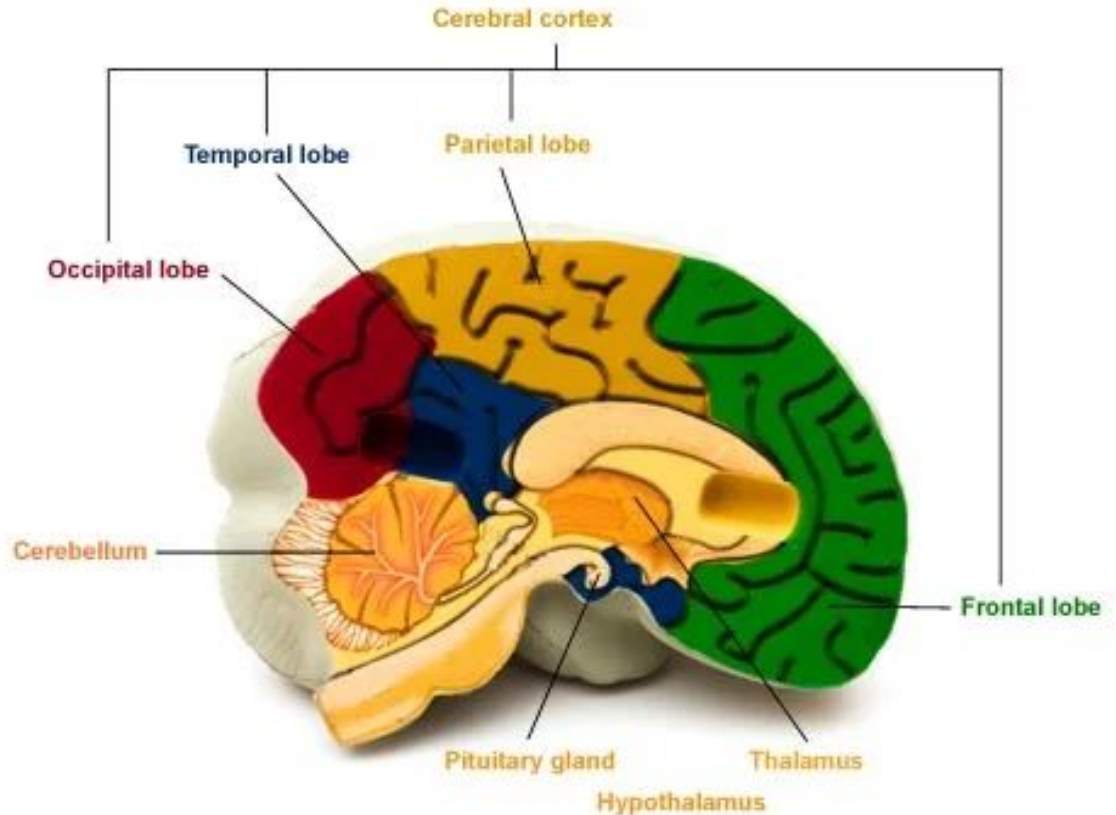
Lesson Introduction/Background Information:

The chart is showing you the six main parts of the brain and their functions. What age do you think the frontal lobe is fully developed? If you said mid 20's, you are right.



Practice:

Look over the parts of this brain that has been cut in half and know these parts. Notice the four parts of the cerebral cortex



Practice:

Watch the video [The Human Brain: Major Structures and Functions](#) which shares a multitude of information about the human brain. After watching the video can you answer the following questions? What were some of your takeaways?

1. What is the largest part of your brain? _____
2. Which part of the brain is responsible for waking you up in the morning?

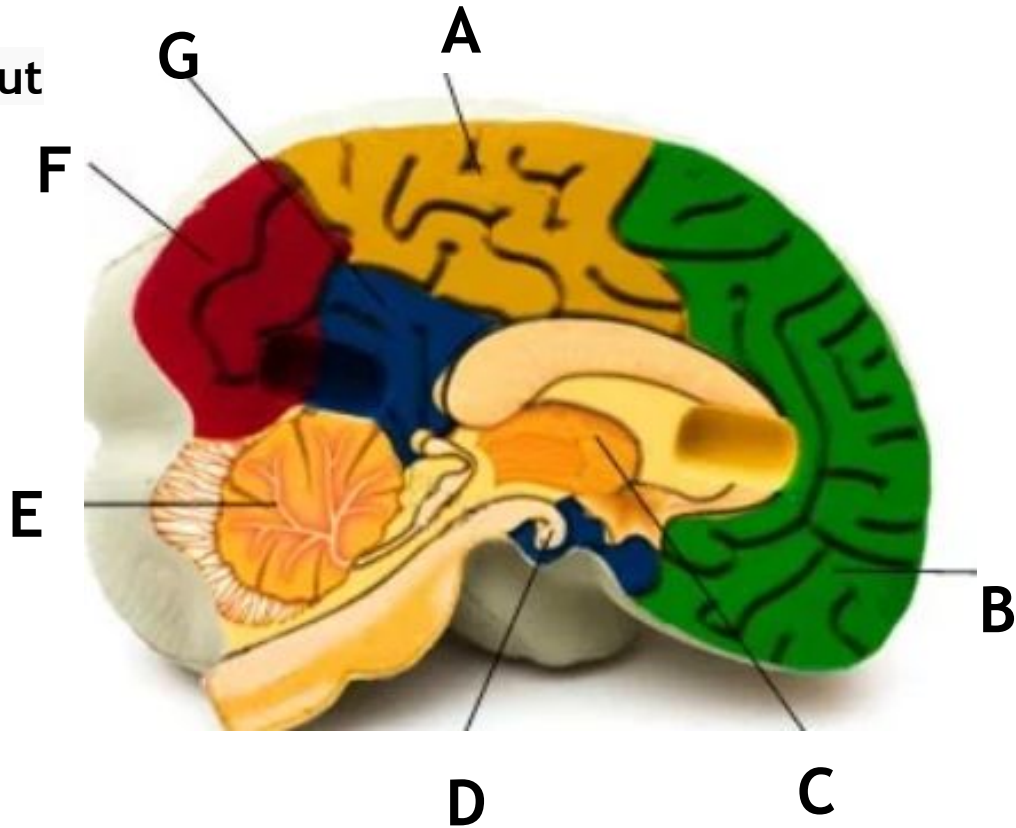
3. What 4 regions is the cortex divided into:
 - a. _____
 - b. _____
 - c. _____
 - d. _____
4. Where is the thalamus located? _____



Self Assessment:

Can you name the different parts
of this brain diagram that has been cut
in half?

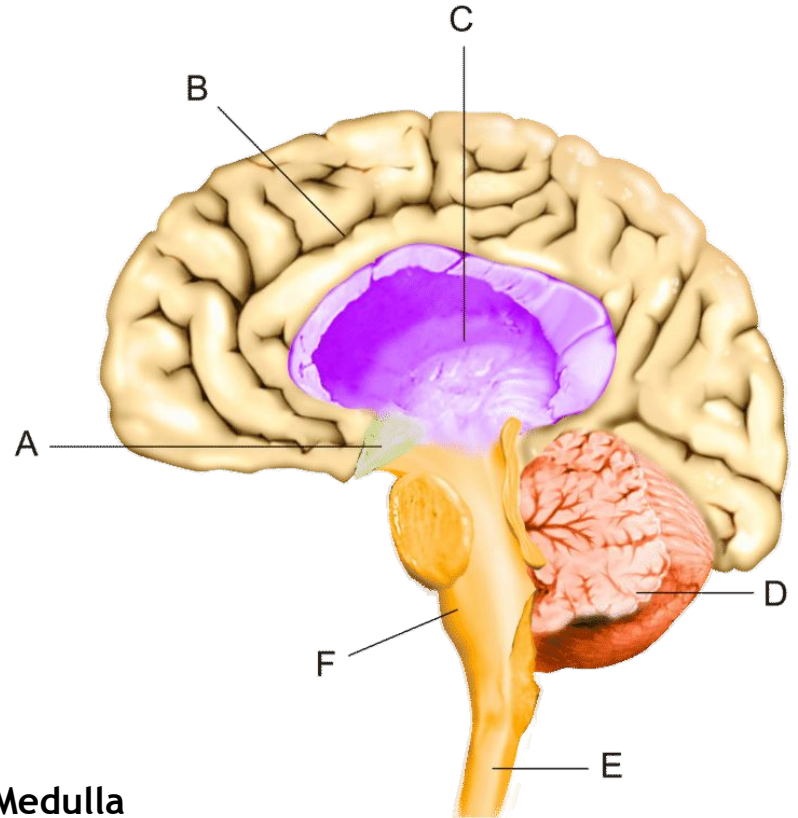
- A. _____
- B. _____
- C. _____
- D. _____
- E. _____
- F. _____



Extend Your Learning/Continued Practice:

Can you name some of the different parts of this brain diagram that has been cut in half?

- A. _____
- B. _____
- C. _____
- D. _____
- E. _____
- F. _____



Use your word bank: Spinal cord, Hypothalamus, Medulla
Cerebrum, Thalamus, Cerebellum

Answer Key:

Practice Answers:

1. Cerebrum
2. Hypothalamus
3. Frontal Lobe, Temporal Lobe, Parietal Lobe, Occipital Lobe
4. Center of the brain

Self Assessment Answers:

- A. Parietal lobe
- B. Frontal lobe
- C. Thalamus
- D. Pituitary gland
- E. Cerebellum
- F. Occipital lobe
- G. Temporal lobe

Extend Your Knowledge Answer Key:

- A. Hypothalamus B. Cerebrum C. Thalamus D. Cerebellum E. Spinal cord F. Medulla

