Read pages 59-67 and answer the following questions about the brain.

1. How did ancient people explain the differences between animals and humans?

2. Why do you think the Egyptians and Greeks believed what they did about the origins of behavior in the human body?

Parts of the Brain

3. Describe the function of the three sections of the brain:

   - hindbrain
   - midbrain
   - forebrain

4. What sorts of problems would a person have if he/she had an injury to the following structures of the hindbrain?

   - pons
   - cerebellum
   - medulla
5. What sorts of problems would a person have if he/she had an injury to the following structures of the forebrain?

- thalamus
- hypothalamus
- limbic system
- cerebrum

The Cerebral Cortex: What Makes Us Unique

6. Why does the author compare the brain to a walnut?

7. What is the function of the corpus callosum?

What would you expect to happen if a person’s corpus callosum was cut?

8. What problems would you expect a person to have if they had damage to the following lobes of the brain?

- frontal
- parietal
- temporal
- occipital
9. What are association areas?

10. What is aphasia?

11. Describe the location and function of Wernicke's area.

12. Describe the location and function of Broca's area.

13. Where are language abilities located in the brain for most people?

14. Can someone be truly “left-brained” or “right-brained”? Why or why not?

15. What is a split-brain operation and why is it done?

16. What types of effects does a split-brain operation have on a person's functioning?

**Methods of Studying the Brain**

17. How can accidents teach us about how the brain works?

18. How has electrical stimulation been used to study the brain? How can it be unreliable?
The Brain: Our Control Center Reading Guide

19. What can an electroencephalogram (EEG) tell us?

20. Describe the differences between the following three kinds of brain scans:

   CAT scan

   MRI

   PET scan

Read the story of Phineas Gage on page 65 (Is Phineas Gage Still the Same Man?) and answer the following questions.

21. Who was Phineas Gage and what happened to him?

22. How did Gage change after his accident?

23. What part of Gage’s brain was injured?

24. Phineas Gage’s story is retold in most psychology textbooks. What do you think makes his story special and important in the history of psychology?