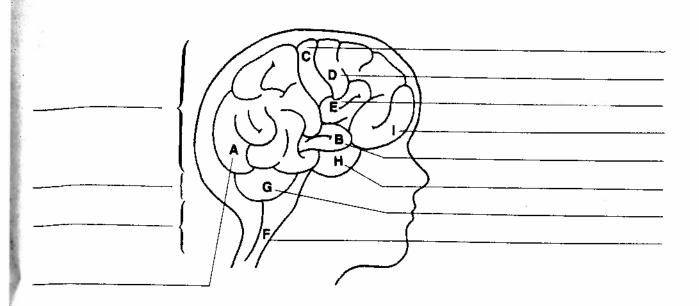
Name	Class	Period
The human brain is divided specialized. Each part has a job to parts. The brain is even more specially specific body sides.	into three different p	earts. Each part is
OBJECTIVES In this exercise, you will: a. identify and label the three brain b. determine the jobs of certain bra c. match brain areas with their corr	in areas.	ody control.
KEYWORDS Define the following keywords:		
cerebellum		
cerebrum		
involuntary		
medulla		
voluntary		
MATERIALS #2 pencil colored pencils: red, gr		yellow
B. speech center G	n's three parts or area ebellum. n parts by using the f heartbeat center coordination center smell center personality center	as. Use the following following labels: for body muscle

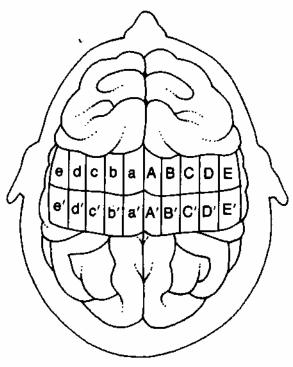
FIGURE 1. Side view of the human brain



Part B. How the Brain Controls the Body

- 1. Examine the top view of the cerebrum in Figure 2. Note that the cerebrum is divided into left and right sides. Each side has been marked for you.
- 2. Locate and examine the two front views of the body in Figure 3. Note that in these views the left and right sides are reversed (this is because they are front views). The body views are marked either "sensation of body pain" or "muscle control of body." Muscle control and body pain are controlled by certain brain areas. The brain area controlling this and the corresponding areas on the body are marked with similar letters.

FIGURE 2. The cerebrum



left side of cerebrum right side of cerebrum

3. Match the brain areas of Figure 2 with their corresponding body areas of Figure 3 by coloring in parts of the figures as follows:

, 0	1		
A-solid red	A'-stripe red	a-crisscross red	a'-dot red
B-solid blue	B'-stripe blue	b-crisscross blue	b'-dot blue
C-solid green	C'-stripe green	c-crisscross green	c'-dot green
D-solid yellow	D'-stripe yellow	d-crisscross yellow	d'-dot yellow
E-solid gray	E'-stripe gray	e-crisscross gray	e'-dot gray
0 /	1 0 /	6-1-7	c dot gray

FIGURE 3. Front views of the human body

muscle contol of body sensation of body pain c' b В C Þ В A' A right side left side right side left side Key to coloring for Figure 3 solid stripe crisscross dots

QUESTIONS

- Which brain area is the largest?

 What side and functions are part of body areas
 - a. A-E?_____
 - b. a-e?_____

3.	On what brain side of the cerebrum do the following appear:
	a. A-E?
1	b. a-e? By using your answers to questions 2 and 3, explain how brain side and body
т.	
	muscle control are related.
5.	What side and function are part of body areas
	a. A'-E'?
^	b. a'-e'? On what brain side of the cerebrum do the following appear:
о.	
	a. A'-E'?
7.	b. a'-e'? By using your answers to questions 5 and 6, explain how brain side and body
	sensation of pain are related.
	Circle the answer that correctly completes the following statements: a. Body areas A-E for muscle movement go from (top to bottom, bottom to top) of the body. b. Brain areas A-E for control of muscle movement go from (center to right side, right side to center) of the brain. c. Body areas A'-E' for sensation of pain go from (top to bottom, bottom to top) of the body. d. Brain areas a'-e' for sensation of pain go from (center to left side, left side to center) of the brain. A stroke or cardiovascular accident results when blood vessels in the brain burst. This results in damage to the brain area near the broken blood vessel. Using Figure 2 as a guide, predict how a person would be affected if they suffer a stroke in
	a. area A.
	b. area C
	c. area E
	d. area D'
	e. area b
	f. area e'