Title	Name	
	Name	

Class __

Guided Reading Activity

6-2



Studying the Brain

For use with textbook pages 160-168

Directions: Filling in the Blanks Use your textbook to fill in the blanks using the words in the box.

behavior hypothalamus pons
brain waves limbic system reticular activating system
cerebellum magnetic resonance imaging right hemisphere
cerebral cortex medulla thalamus
electrodes occipital lobe

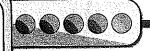
The	Three	Brains

The 1	helps control posture and balance	e. The 2	controls
breathing and a v	variety of reflexes, while the 3	functions as a bridg	ge to intercon-
nect messages be	etween the spinal cord and brain. The 4		
	alerts the rest of the brain to incoming s	ignals.	
The fore	orain includes the 5 , w	hich is a relay station for al	ll the informa-
tion that travels t	to and from the cortex, and the 6	, which controls	functions such
as hunger and bo	ody temperature. The 7	give	es you the ability
to learn and stor	e complex information, and the 8		regulates
emotions and m	otivations.		•
Visual si	gnals are processed in the 9		The
	controls the le		
How Psycholog	jists Study the Brain		
Psychobiologists	s study the role of the brain in 11		•
	occur because the neurons in the brain		
of activity in uni	son. 13 may be used to	set off the firing of neuro	ns as well as to
	equencies through the brain, allowing researc		•
	fy tumors or types of brain damage.		

Name	 Date	Class	
TIGHT			

Vocabulary	_
Activity	

6-2



Studying the Brain

Directions: Complete each sentence by writing the term that best completes the sentence.

computerized axial tomography (CAT) lobes magnetic resonance imaging (MRI) electroencephalograph (EEG) midbrain forebrain positron emission tomography (PET) hindbrain 1. The ______ is involved in the most basic processes of life. 2. ______ is an imaging technique used to identify brain injuries and deterioration. 3. The _____ covers the brain's central core. enables researchers to study brain activity and brain structure. 5. The _____ can be used to record the electrical activity of the brain. 6. The cerebral cortex is divided into different regions known as _____ **7.** The ______ integrates sensory information and relays it upward. 8. The _____ can capture a picture of the brain as different parts are being used. Directions: Answer the following questions in the space provided. **9.** Describe the functions of three parts of the forebrain.

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10. How do psychologists study the brain?