

Name: \_\_\_\_\_

Name: \_\_\_\_\_

### **Brain Scavenger Hunt**

Go to this website:

<http://www.g2conline.org/?gclid=CJ-nh-CBqKACFd1L5QodqQyxcg>

Under heading “Targeted Content” in the upper right hand corner, click on “3-D Brain.”

Use the gray drop menu (initially showing the “whole brain”) to navigate through the information and answer the following questions.

- 1) Several cognitive disorders, including schizophrenia, Alzheimer’s disease, and ADHD have been associated with abnormalities in which part of the brain?
  
  
  
  
  
  
  
  
  
  
- 2) Deep stimulation of this lobe has been shown to produce profound religious and out-of-body experiences, which lobe is it?
  
  
  
  
  
  
  
  
  
  
- 3) What is grapheme-color synesthesia? (Hint: It’s a visual condition.)
  
  
  
  
  
  
  
  
  
  
- 4) Researchers estimate that Broca’s area is located in the left hemisphere for almost \_\_\_\_\_ (percentage) of humans.
  
  
  
  
  
  
  
  
  
  
- 5) Based on recent research, in addition to its involvement in motor control, posture, and balance, the pons may also be involved in sleeping patterns. Explain how.
  
  
  
  
  
  
  
  
  
  
- 6) This brain part is heavily involved in regulating emotions and may help researchers discover useful therapy/treatments for mood disorders, which part of the brain is it?
  
  
  
  
  
  
  
  
  
  
- 7) Damage to Wernicke’s area results in difficulty with language comprehension, specifically known as receptive aphasia. What do people with receptive aphasia particularly struggle with?
  
  
  
  
  
  
  
  
  
  
- 8) Damage to the posterior parietal lobe(s) can result in hemispatial neglect, what is this condition?

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9) Which part of the brain contains more neurons than the rest of the brain combined?

10) Is it possible for the brain to repair damaged neural networks or compensate for the loss of function in particular structures? (Circle one below.)

Yes

or

No

11) In the past approximately 40,000 people in the U.S. received prefrontal lobotomies. What results did these patients experience afterwards?

12) A 2008 study resulted in the successful cessation of self-mutilative behaviors through stimulation of which part of the brain?

13) Which substructure/cortex is Broca's area located in within the frontal lobe?

14) What are the seven substructures of the limbic system?

a.

d.

b.

e.

c.

f.

g.

15) A study in 2006 found evidence that this part of the brain is activated when one is dancing to music. Which part of the brain is it?