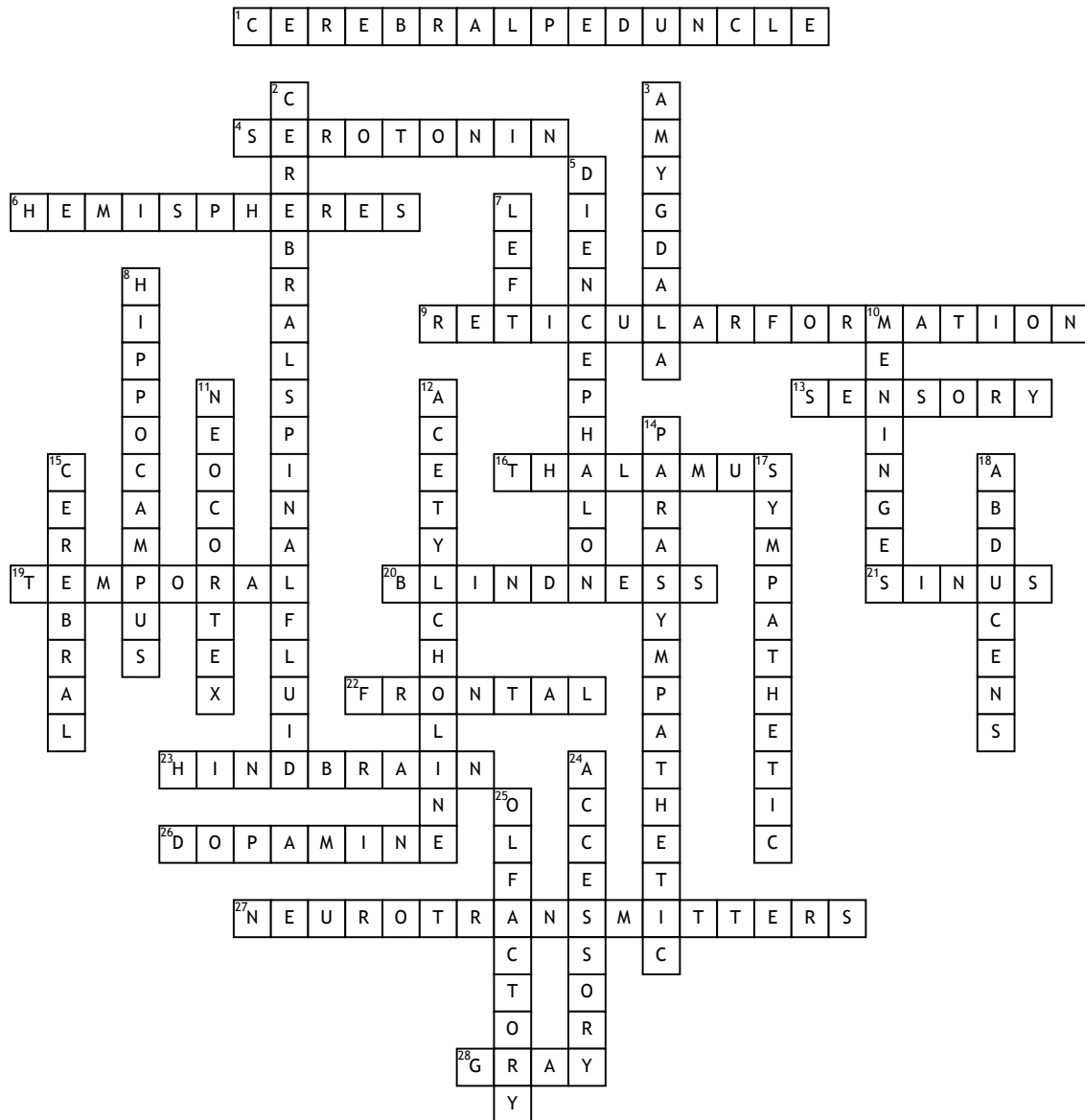


Name: \_\_\_\_\_

# Basic Brain Structure and Function



## Across

1. The \_\_\_\_\_ helps to refine movement so it isn't clumsy or erratic (2 words)
4. The neuroendocrine \_\_\_\_\_ is associated with mood, appetite, vomiting, limbic system functions, pain and sleep. The drug Prozac mimics this
6. The brain is divided into two \_\_\_\_\_
9. The \_\_\_\_\_ is a set of interconnected nuclei located throughout the brainstem and play a crucial role in maintaining behavioral arousal and consciousness (2 words)
13. The parietal lobe is known as the primary \_\_\_\_\_ area where impulses related to temperature, pain, touch, taste, smell are interpreted
16. The \_\_\_\_\_ is the structure that receives sensory and limbic information and sends this information to the brain
19. The area of the brain responsible for receiving information from the ears is the \_\_\_\_\_ lobe
20. Damage to the occipital lobes can cause \_\_\_\_\_
21. Superior, Straight or Cavernous \_\_\_\_\_
22. The lobe of the brain involved in planning a schedule, imagining the future or reasoning during an argument is the \_\_\_\_\_ lobe

23. In the architecture of the brain there are three basic units based on location. The one that includes the upper spinal cord, brain stem and cerebellum is the \_\_\_\_\_

26. A neuroendocrine associated with concentration, socializing, food-seeking, sexual desire and motor neuron control and associated with Parkinson's, Alzheimer's and Lewy Body dementia

27. The \_\_\_\_\_ are chemical messengers in the nervous system
28. The outermost layer of the cerebral hemispheres are composed of \_\_\_\_\_ matter

## Down

2. Substance that reduces the weight of the brain, supplies nutrients, transports hormones and prevents head injury (3 words)
3. The \_\_\_\_\_ functions to control autonomic, emotional, and sexual behavior (regulates visceral motor activity)
5. The \_\_\_\_\_ is the regions of the embryonic vertebrate neural tube that gives rise to posterior forebrain structures
7. The \_\_\_\_\_ side of the cerebrum specializes in language, calculation and sequential thought processes
8. Short term memories and converted to long-term memories in the \_\_\_\_\_

10. The membrane that covers and protects the central nervous system, forms partitions, contains cerebral fluid, protects blood vessels and encloses the venous sinuses.

11. In development of the brain, the \_\_\_\_\_ is responsible for the evolution of intelligence

12. An excitatory neurotransmitter that governs muscle contractions and is associated with memory formation and diseases like Alzheimer's is \_\_\_\_\_

14. The \_\_\_\_\_ nervous system is part of the involuntary nervous system that serves to slow the heart rate, increase intestinal and glandular activity, relax the sphincter muscles and allow a muscle to rest

15. Sensory information received from the outside world is processed; controls voluntary movement & regulates conscious thought & mental activity in the \_\_\_\_\_ hemispheres

17. The \_\_\_\_\_ nervous system serves to stimulate nervous system activity such as accelerating the heart rate, constricting blood vessels, raising the blood pressure, and facilitating a muscle contraction

18. The sixth cranial nerve, responsible for the control of lateral eye movement is the \_\_\_\_\_ nerve

24. The Eleventh cranial nerve which controls the trapezius and sternocleidomastoid and controls swallowing movement is the \_\_\_\_\_ nerve

25. Cranial nerve #1, responsible for smell is called the \_\_\_\_\_ nerve