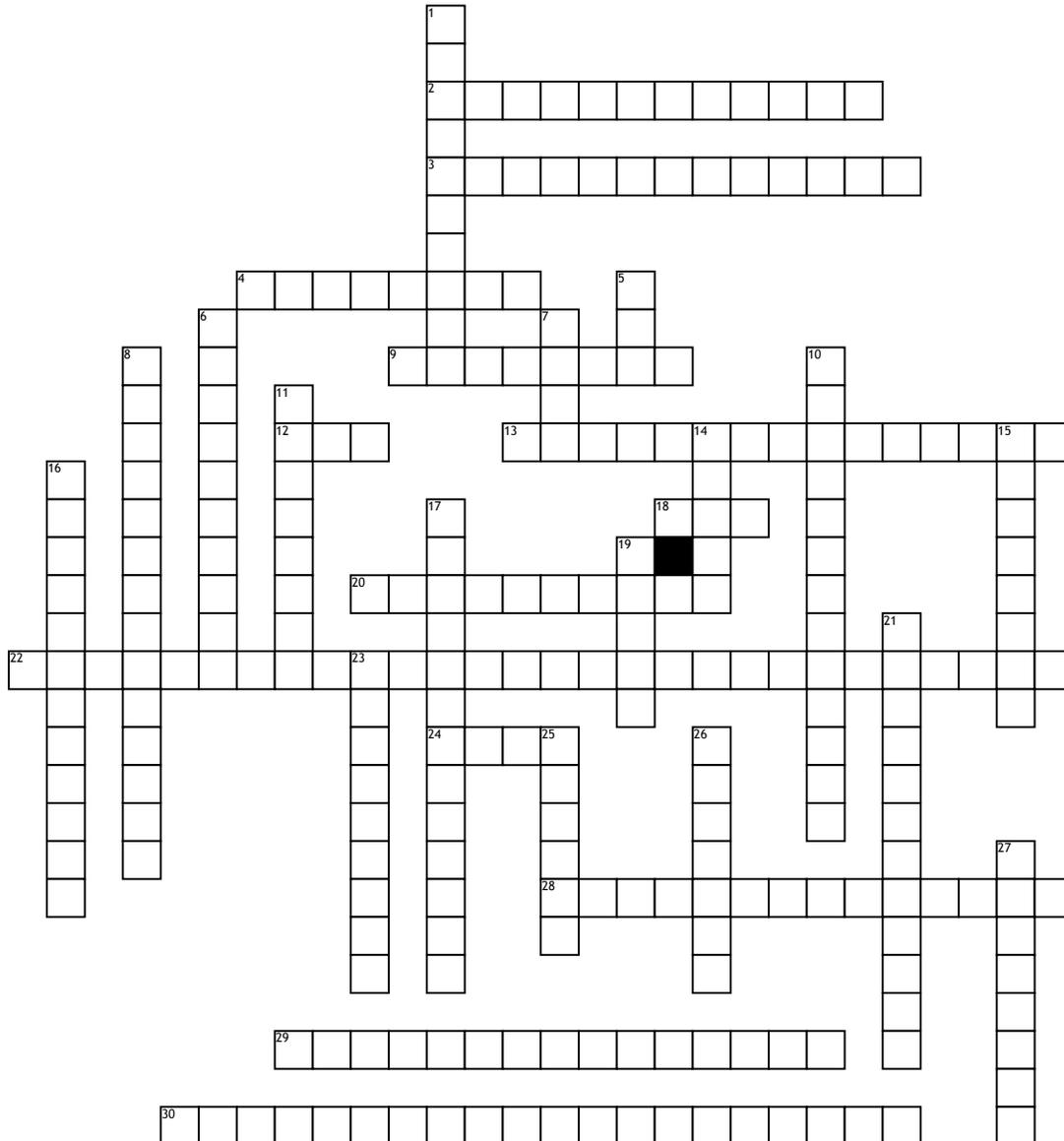


Psychology Chapter 2



Across

2. neural system located below the cerebral hemispheres; associated with emotions and drives
3. portion of the cerebral cortex lying roughly above the ears; includes areas that receive information from the ears
4. two lima-bean-sized neural clusters in the limbic system; linked to emotion
9. recurring problems in falling or staying asleep
12. recording apparatus, using electrodes placed on the scalp, that records waves of electrical activity that sweep across the brain's surface
13. the biological clock; regular bodily rhythms that occur on a 24-hr cycle
18. a view of brain activity showing where a radioactive form of glucose goes while the brain performs a given task
20. the "little brain" at the rear of the brainstem, functions include processing sensory input and coordinating movement output and balance
22. the division of the autonomic nervous system that calms the body, conserving its energy
24. neuron extensions that pass messages to other neurons or cells
28. portion of the cerebral cortex lying at the back of the head; includes areas that receive information from the visual fields
29. a nerve impulse

30. a branch of psychology concerned with the links between biology and behavior

Down

1. condition in which the brain's two hemispheres are isolated by cutting the fibers connecting them
5. a technique that uses magnetic fields and radio waves to produce computer generated images of soft tissue. These scans show brain tissue
6. the brain's ability to change, especially during childhood, by reorganizing after damage or by building new pathways based on experience
7. a technique for revealing blood flow and, therefore, brain activity by comparing successive MRI scans.
8. false sensory experiences, such as hearing something in the absence of an external auditory stimulus
10. our awareness of ourselves and our environment
11. recurring sleep stage during which vivid dreams commonly occur. Also known as paradoxical sleep, because the muscles are relaxed, but other body systems are active
14. a sequence of images, emotions, and thoughts passing through a sleeping person's mind
15. chemical messengers that are manufactured by the endocrine glands, travel through the bloodstream, and affect other tissues
16. portion of the cerebral cortex lying just behind the forehead; involved in speaking and muscle movements and in making plans and judgments

17. portion of the cerebral cortex lying at the top of the head and toward the rear; receives sensory input for touch and body positions
19. periodic, natural, reversible loss of consciousness - as distinct from unconsciousness resulting from a coma, general anesthesia, or hibernation
21. a neural structure lying below the thalamus; directs several maintenance activities; helps govern the endocrine system via the pituitary gland, and is linked to emotion
23. the level of stimulation required to trigger a neural impulse
25. a nerve cell; the basic building block of the nervous system
26. the junction between the axon tip of the sending neuron and the dendrite or cell body of the receiving neuron
27. neuron extensions that receive messages and conduct impulses toward the cell body