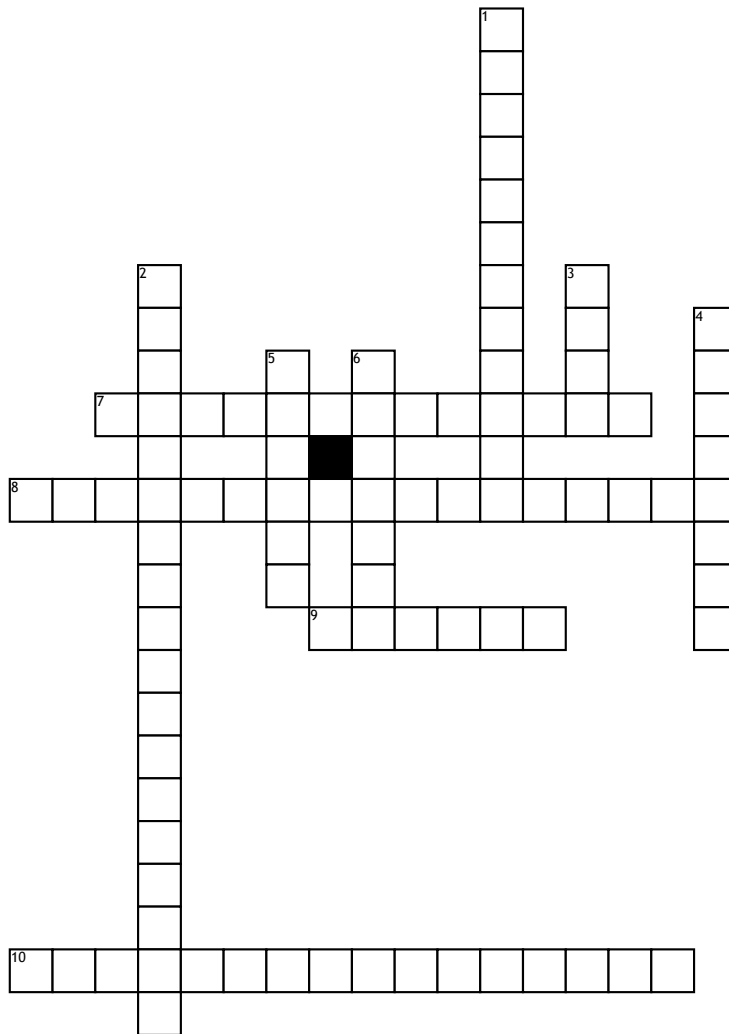


# Learning and the Brain



**Across**

- 7. Also called the neuron spike point, regulates the transmission of stimuli to the brain
- 8. A chemical molecule that transmits nerve impulses across a synapse, within and between brain cells
- 9. A grayish or reddish granular cell with specialize processes that is the fundamental functional unit of newcous tissue in the brain
- 10. Concerns the property of neural circuitry to potentially acquire (given appropriate training) nearly any function

**Down**

- 1. A group of subcortical structures (such as the hypothalamus hippocampus, and amygdale) of the brain that are concerned especially with emotion and

- 2. When looked at from the top, the brain is composed of two interconnected spheres or lobes and is the seat of higher level thinking
- 3. Long fibers that send electrical impulses and release neurotransmitters
- 4. Any of the usually branching protoplasmic process that conduct impulses toward the body of a nerve cell
- 5. The highly wrinkled outer layer of the cerebrum and cerebellum (fore-brain); gray matter
- 6. The space between nerve cells that point at which a nervous impulse passes from one neuron to another

**Word Bank**

- |                     |               |                   |
|---------------------|---------------|-------------------|
| NEUROTRANSMITTER    | CORTEX        | SENSORY GATING    |
| SYNAPSE             | LIMBIC SYSTEM | NEURAL PLASTICITY |
| CEREBRAL HEMISPHERE | NEURON        | AXON              |
| DENDRITE            |               |                   |