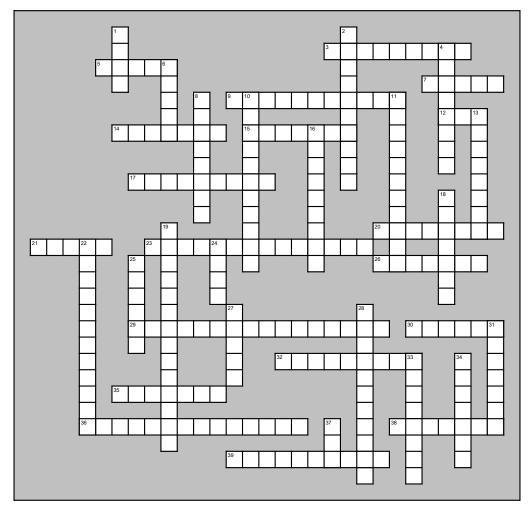
## Crossword



## Across

- Valves (pulmonary and aortic) that allow blood to leave the ventricles.
- 5. Nervous output that causes a response in effector cells.
- 7. Upper heart chamber that receives blood.
- 9. The sending or \_\_\_ cell secretes a chemical neurotransmitter to cross the synaptic gap.
- 12. Deliver oxygen, carbon dioxide, waste. Abbrev.
- Division of the nervous system including the brain and spinal cord.
- 15. The junction between a synaptic terminal of one neuron and the dendrites of another neuron (relay point).
- 17. Circuit that involves blood flow to the lungs for oxygenation.
- 20. Arteries that feed the heart.
- Sodium-potassium \_\_\_ use energy from ATP to actively move the ions in and out of the neuron.
- After the membrane potential reverses, the neuron returns to the resting potential.
- 26. Atria contract and blood flows into the ventricles.
- Valves (one-way) that allow blood from the atria into the ventricles.
- A nerve signal is called a(n) \_\_\_\_ potential. It is a rapid flip-flop of the membrane potential.
- 32. Receive signals from other neurons and convey the information to the cell body.
- 35. When the membrane potential (-70mv) has a slight negative charge inside the neuron and slight positive charge outside.
- 36. System that includes arteries, veins, and capillaries.
- 38. Comprised of a cell body, dendrites, and an axon.
- 39. Lower heart chamber that pumps blood from the heart.

## Down

- Transmits signals to other cells; wrapped in myelin sheath from schwann cells with nodes to speed the signal along.
- Division of the nervous system conveying information from the CNS to the body.
- 4. Carry blood FROM the heart.
- 6. The \_\_\_ side of the heart is for the pulmonary circuit of blood.
- 8. Ventricles contract and blood is pumped from the heart.
- System that involves 3 phases of gas exchange (breathing, transport, and body cells).
- System that facilitates exchange (gases, nutrients, waste) with all body tissues.
- 13. Respiration that produces ATP from glucose in all cells.
- 16. Blood clotting agents.
- 18. Nerve input that is received as stimuli occur.
- 19. A stimulus causes the neuron to reach or surpass threshold.
- 22. The receiving or \_\_\_ cell that allows the neurotransmitter to bind.
- 24. The side of the heart is for systemic circulation of blood.
- 25. The action potential is \_\_\_\_ from dendrite to synaptic terminal and all-or-none.
- 27. Carry blood TO the heart.
- 28. Convey blood between arteries and veins with "beds".
- 31. System that communicates and coordinates with the endocrine system for body functions.
- 33. Circuit that carries oxygen-rich blood from the heart to the rest of the body.
- 34. Air sacs one cell thick for gas exchange in the lungs.
- 37. Fight disease and infection. Abbrev.