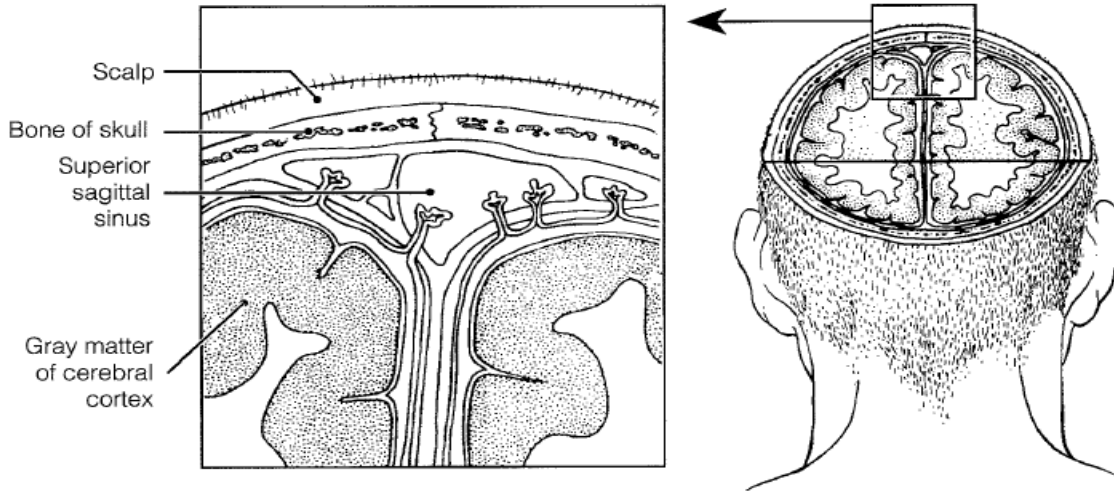


**Section 8.2- Central Nervous System
Regular Anatomy**

1. Matter that consists of myelinated axons is called _____.
2. Matter that consists of cell bodies and short, nonmyelinated fibers is called _____.

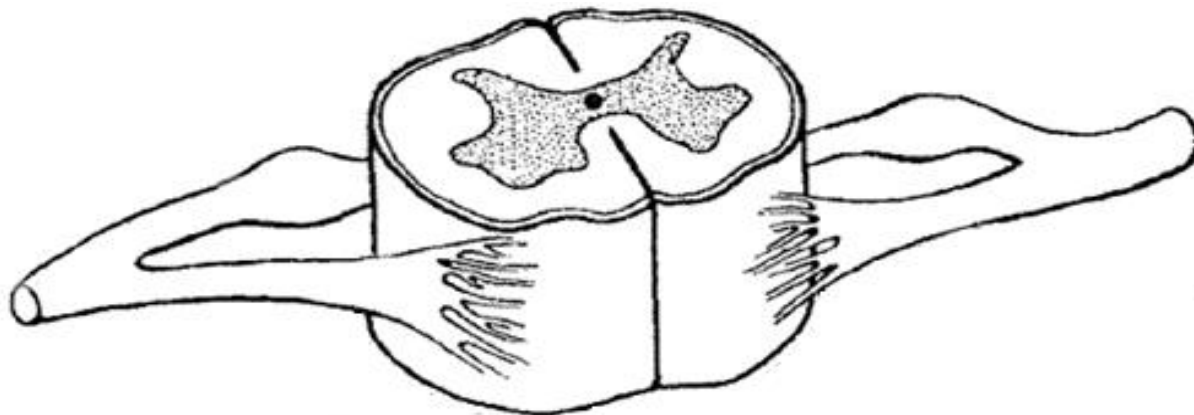
Using the list below, color and label the different meninges of the central nervous system.



- arachnoid mater dura mater pia mater

3. _____ is a fluid that forms a protective cushion around and within the central nervous system. It is created by the ventricles in the brain.

Using the list below, color and label the different parts of the spinal cord.

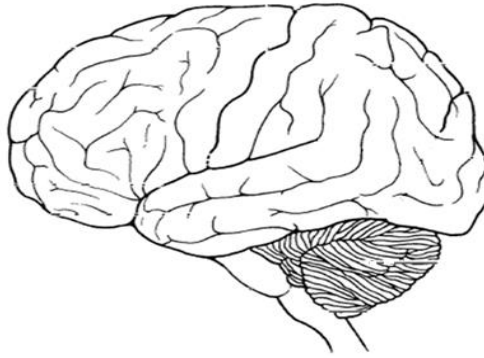


- central canal dorsal root ganglion spinal nerve white mater
 dorsal root gray matter ventral root

4. Spinal cord white matter that is located posteriorly carries sensory information from the periphery to the brain via _____.
5. Spinal cord white matter that is located anteriorly carries motor information from the brain to the periphery via _____.

Using the list below, color and label the 3 (really 4) main portions of the human brain.

- brain stem
- cerebellum
- cerebrum
- diencephalon (not visible)

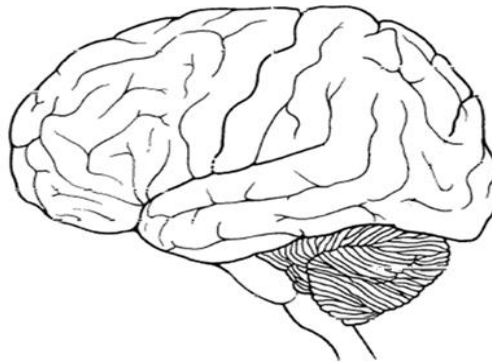


Match the structures of the cerebrum with their description or function.

- | | |
|--------------------------------|--|
| _____ 6. Central sulcus | A. A thin highly convoluted outer layer of gray matter. |
| _____ 7. Cerebral cortex | B. Shallow grooves. |
| _____ 8. Cerebral hemispheres | C. A bridge or band of white matter that connects the right and left cerebral hemispheres. |
| _____ 9. Corpus callosum | D. The deep groove that divides the left and right cerebral hemispheres. |
| _____ 10. Gyrus | E. The groove that separates the frontal and parietal lobes. |
| _____ 11. Lateral sulcus | F. The two halves of the cerebrum. |
| _____ 12. Longitudinal fissure | G. The groove that separates the temporal lobe from the frontal and parietal lobes. |
| _____ 13. Sulcus | H. Convolutions. |

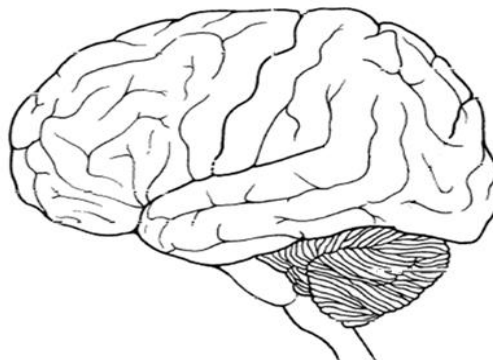
Using the list below, color and label the outer structures of the cerebrum.

- Central sulcus
- Cerebral cortex
- Gyrus
- Lateral sulcus
- Sulcus

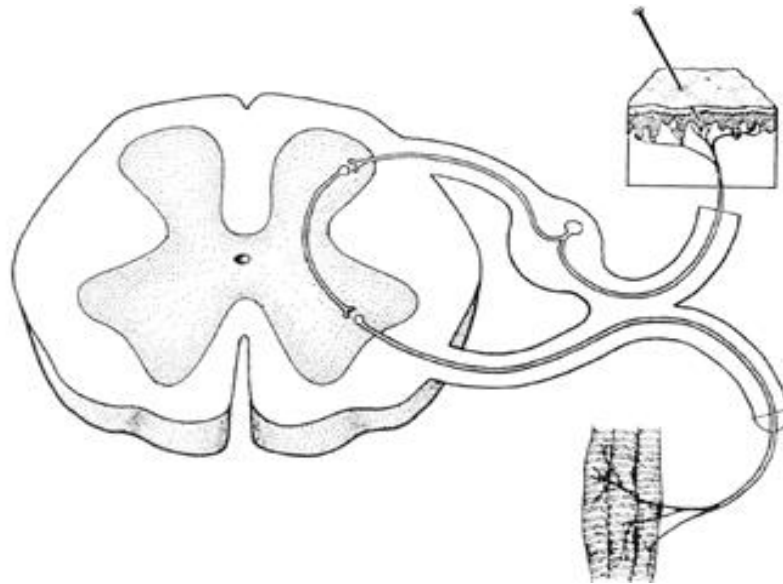


Using the list below, color and label the lobes of the cerebrum.

- Frontal lobe
- Occipital lobe
- Parietal lobe
- Temporal lobe



Using the list below, color and label the different parts of a reflex arc.



- dorsal root ganglion
- dorsal root ganglion

- effector organ
- interneuron

- motor neuron
- receptor

- sensory neuron
- ventral root

Using the list below, create a tree map illustrating the divisions and subdivisions of the human nervous system.

