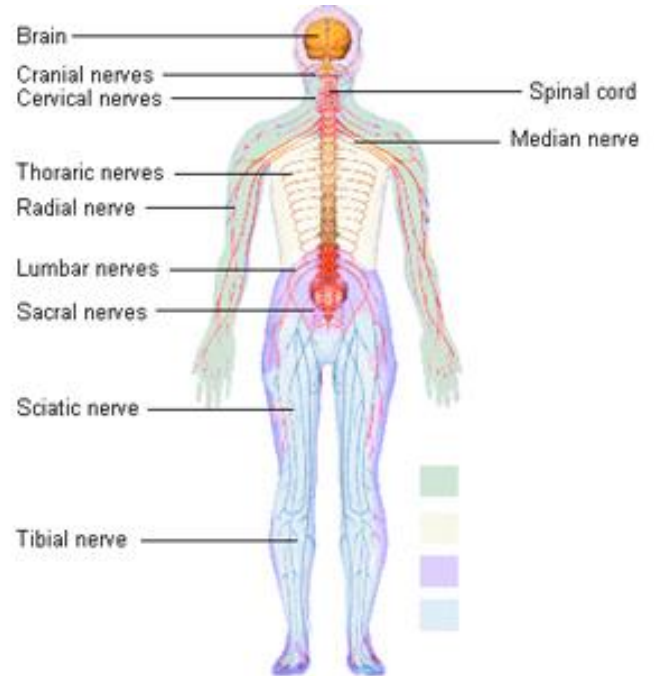
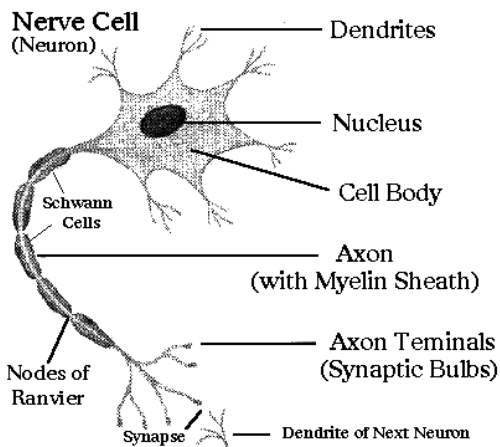


# The Nerve Cell

The basic unit of the nervous system is the nerve cell, or neuron. The basic function of the neuron is to transmit information. There are approximately 28 billion neurons in the human body penetrating every tissue in every part. Neurons vary greatly in size and shape, with the longest ones—those that extend down the leg as part of the sciatic nerve—measuring over one meter. All nerve cells have a similar structure.



Answer all of the following questions or statements:

- Include a title with your name(s) typed under it.
- A picture of the entire human body nervous system.
- A picture of a neuron labeled.
- Where are nerve cells found, and what is the difference between gray matter and white matter?
- Name the largest nerve in the body.
- What is an interneuron and where are they found?
- Which direction does a signal travel within a nerve cell?
- Briefly describe the reflex arc. Be sure to include a picture of a reflex arc and the function of each part of the arc.
- Briefly describe the cerebrum. Be sure to include what it is responsible for as well as the four lobes that make it up.
- Briefly describe the brain stem. Be sure to include the three sections as well as some of the functions of the medulla oblongata.
- Include a labeled picture of the brain.

Info and Pic: [http://www.naturalhealthschool.com/9\\_2.html](http://www.naturalhealthschool.com/9_2.html)

Pic: <http://library.thinkquest.org/06aug/00440/bnervintro.html>

<http://www.contmediausa.com/shop/app/products/Human3D/human3dnervoussystem.html>