

Body Systems Notes Part 1

These are **YOUR** notes. You can write more than is called for on this paper.

TABLE 1: Your body is made up of billions of cells. Cells work together to perform various functions depending on their cell type. It is important to understand that cells are part of an organism's levels of organization. Define each term in the chart, list examples and draw a picture that represents each level.

Level of Organization	Picture
Cells	
Tissue	
Organ	
Organ System	



THINK! What level of organization would come after organ system?

TABLE 2: Each body system has many functions. In fact, each system has many more functions that a seven minute video clip can cover. Below is a list of major overall body system functions. In each box, write the name of the body system that best fits the description. The wording is not necessarily identical to the video clip-- you may need to think about these. (The body systems are listed on the next page.)

Protects from water loss & outside environment	
Major role in gas exchange	
Major role in hormone production	
Excretes waste material & very important for homeostasis	
Provides active defense against pathogens	
Allows for movement	
Transports gases & nutrients	
Coordinates involuntary & voluntary responses	
Involved in the mechanical & chemical breakdown of food	
Provides ability to reproduce	
Supports the body with structure	



THINK! What is homeostasis and why is it important?

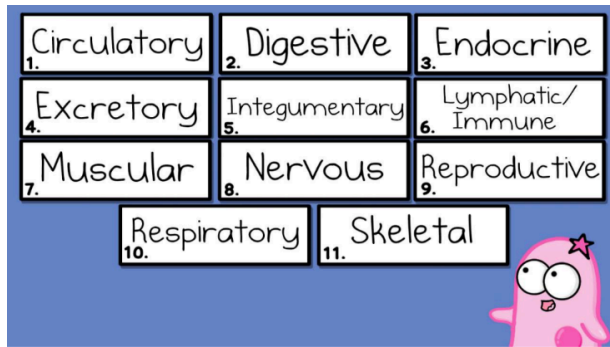
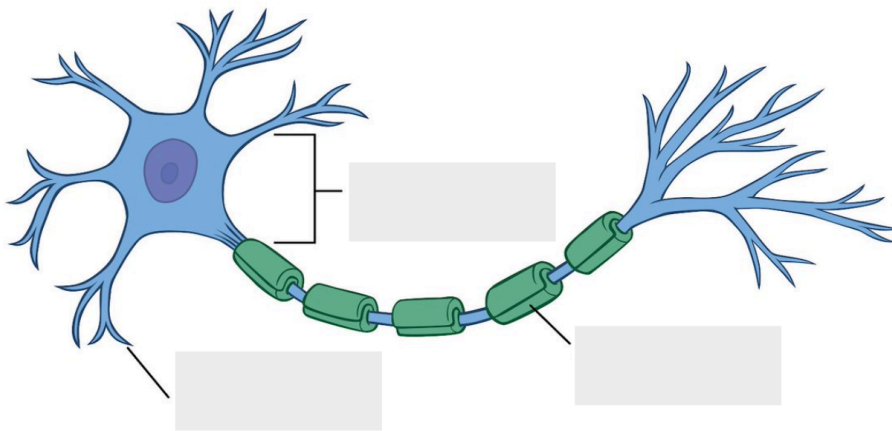


TABLE 3: Remember that organ systems do not work in isolation! They work together as a team. In the following scenarios, select at least two organ systems that would be working together for the scenario. Then illustrate a cartoon that represents it.

Scenario	Body Systems Involved (List at least 2)	Cartoon
Ouch! You step on a tack & jerk away without even thinking. You pick up the tack & place it in a desk drawer.		
You drink two cans of sugary soda, even though you know this isn't healthy for you. You have to run to the bathroom before the next class period starts		
Create your own scenario here.		

What are the organs of the nervous system?

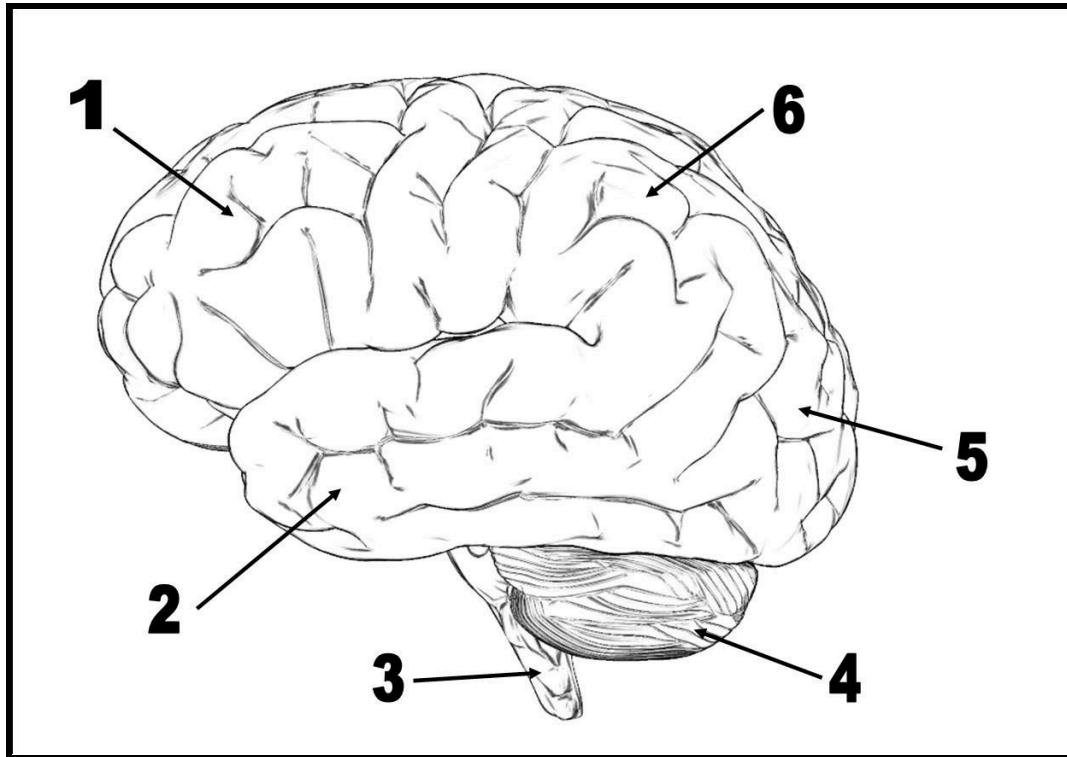


Label the parts of the neuron. Use an arrow to indicate the direction the electrical message goes.

Which part of the neuron is responsible for most of the length?

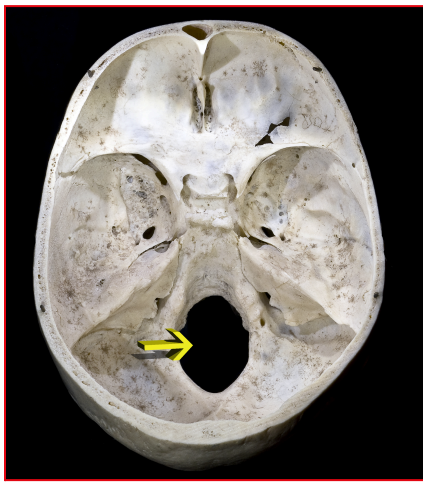
- A. Dendrites
- B. Cell body
- C. Axon

How long are human neurons?

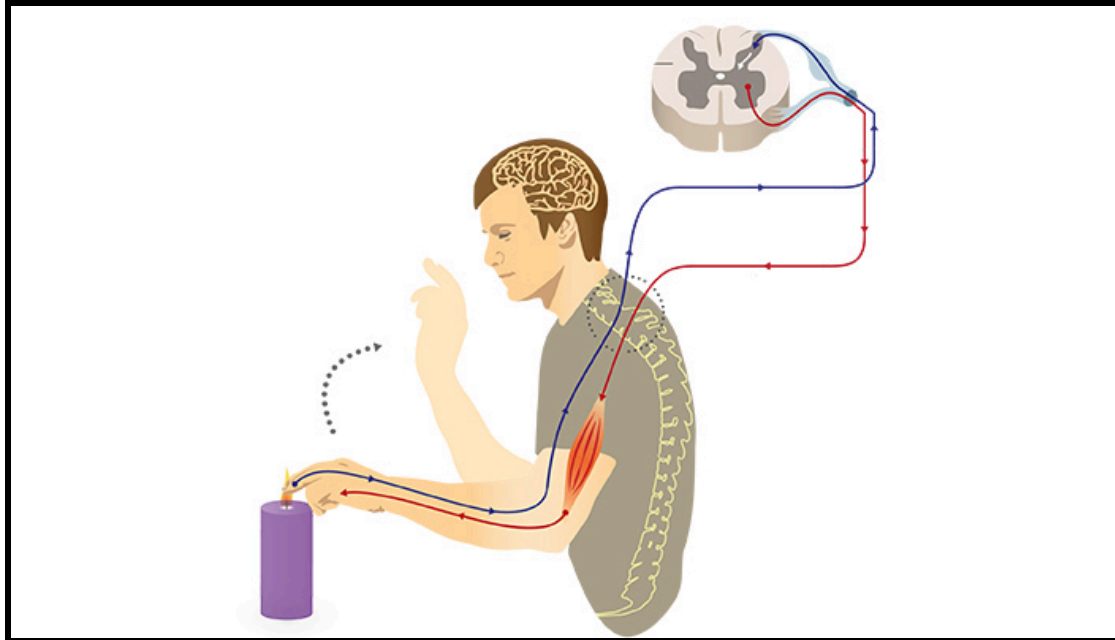


Name these areas of the brain. 1, 2, 5 and 6 are lobes of the cerebrum.	
1	
2	
3	
4	
5	
6	
	Where do you find the visual center? (#)
	The medulla oblongata is part of which structure? (#)
Explain why the surface of the brain is folded.	

What does cerebro mean?	
What does vascular mean?	
What is a more common term for cerebrovascular accident?	
What happens in a cerebrovascular accident?	
What happens in Alzheimer's Disease?	
What happens in a concussion?	



Name the structure indicated by the arrow.	
What passes through this structure?	
What is a nerve?	



Explain what is happening in this picture.

Explain the difference between quadriplegia and paraplegia.