

Nervous System

pages 588-594

Schoolhouse Rock!



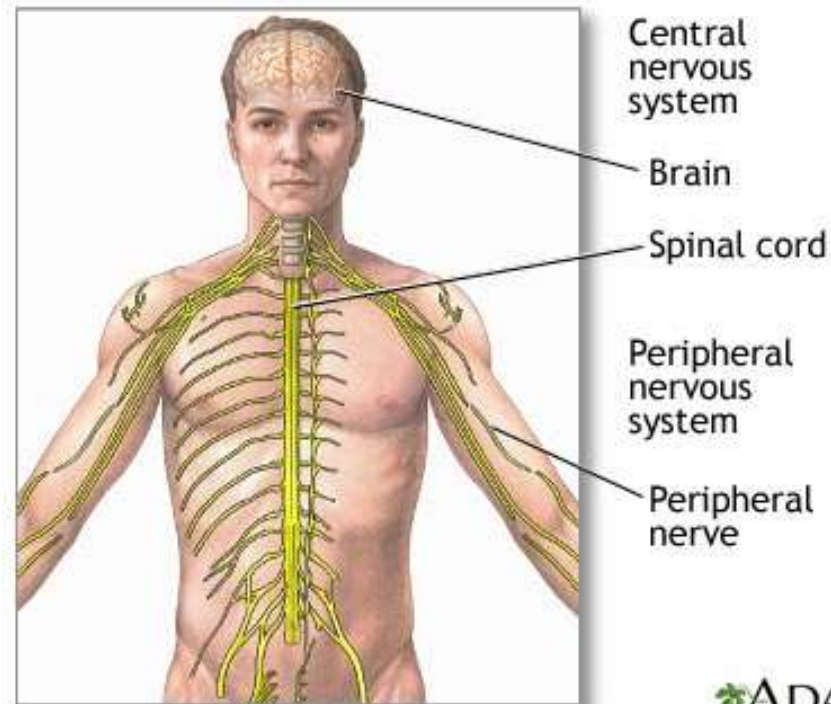
Two Systems

Central Nervous System

- Brain
- Spinal cord
- Processes incoming messages

Peripheral Nervous System

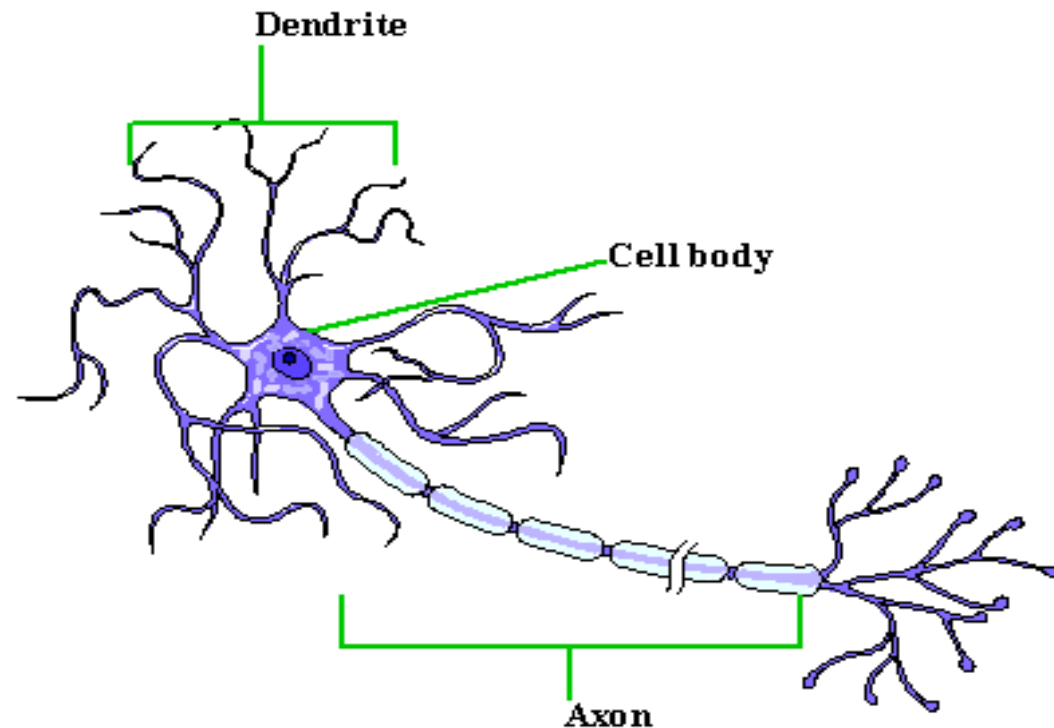
- Nerves
- Connects everything to CNS



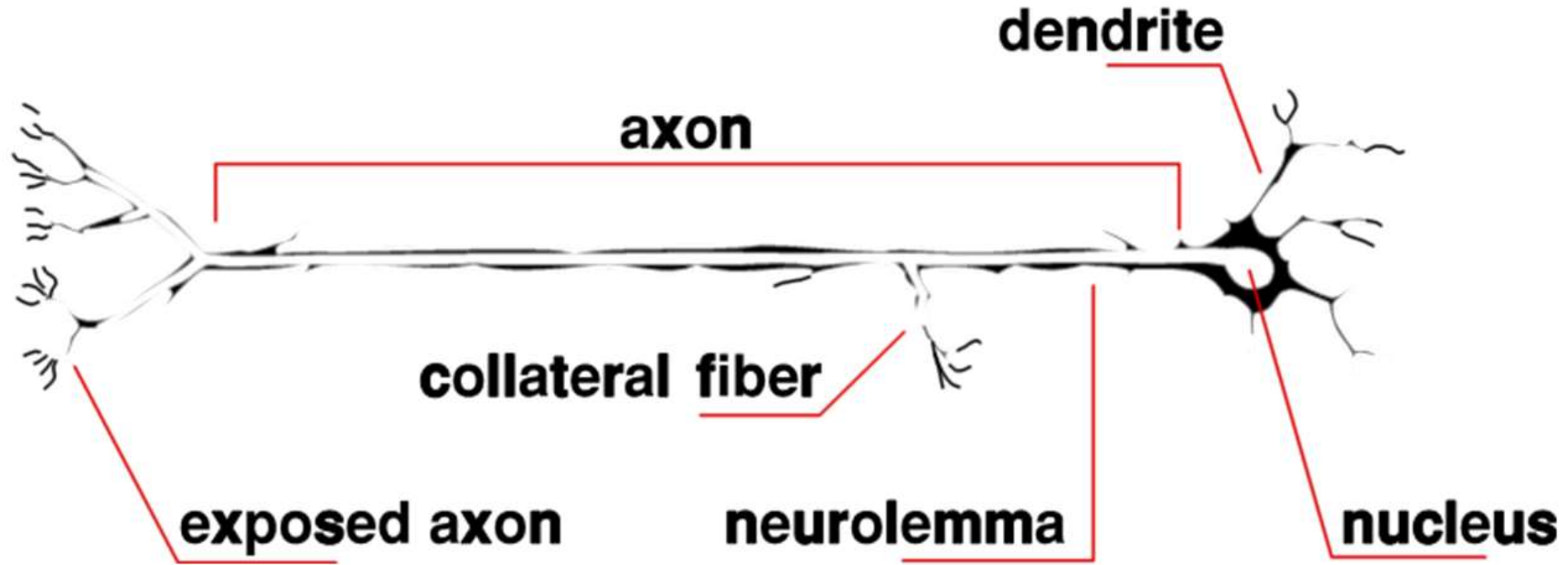
Neurons

- send messages through the body
- called impulses
- fast as 150m/s or slow as 1 m/s

Test it! How fast can we send a signal around the class?



Parts of a Neuron



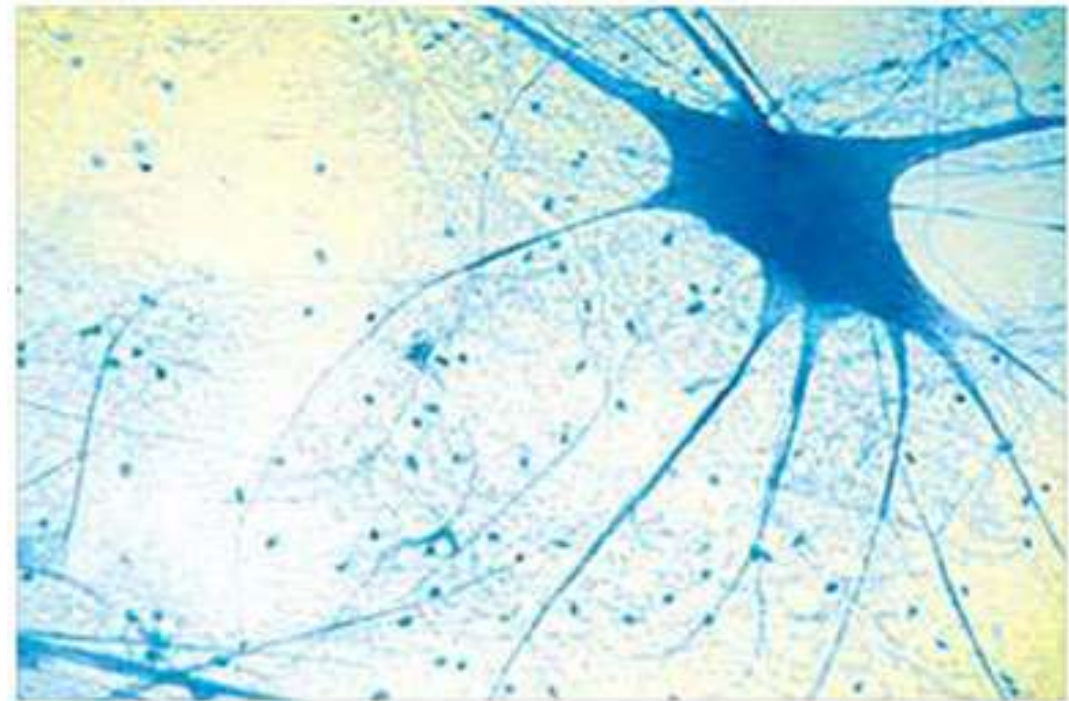
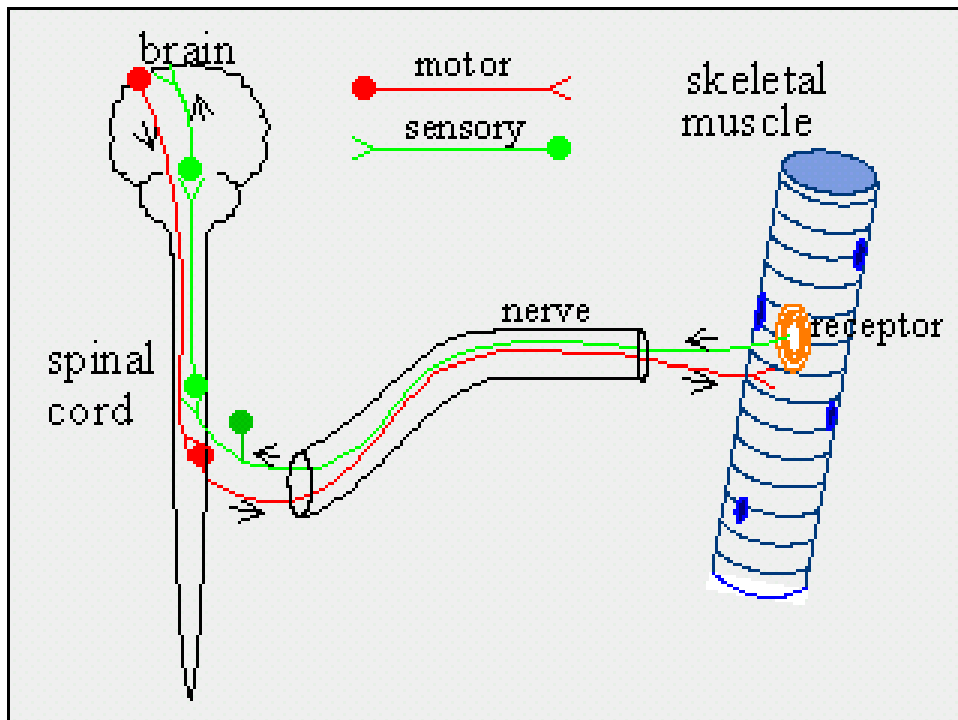
Two types of Neurons

Sensory Neurons

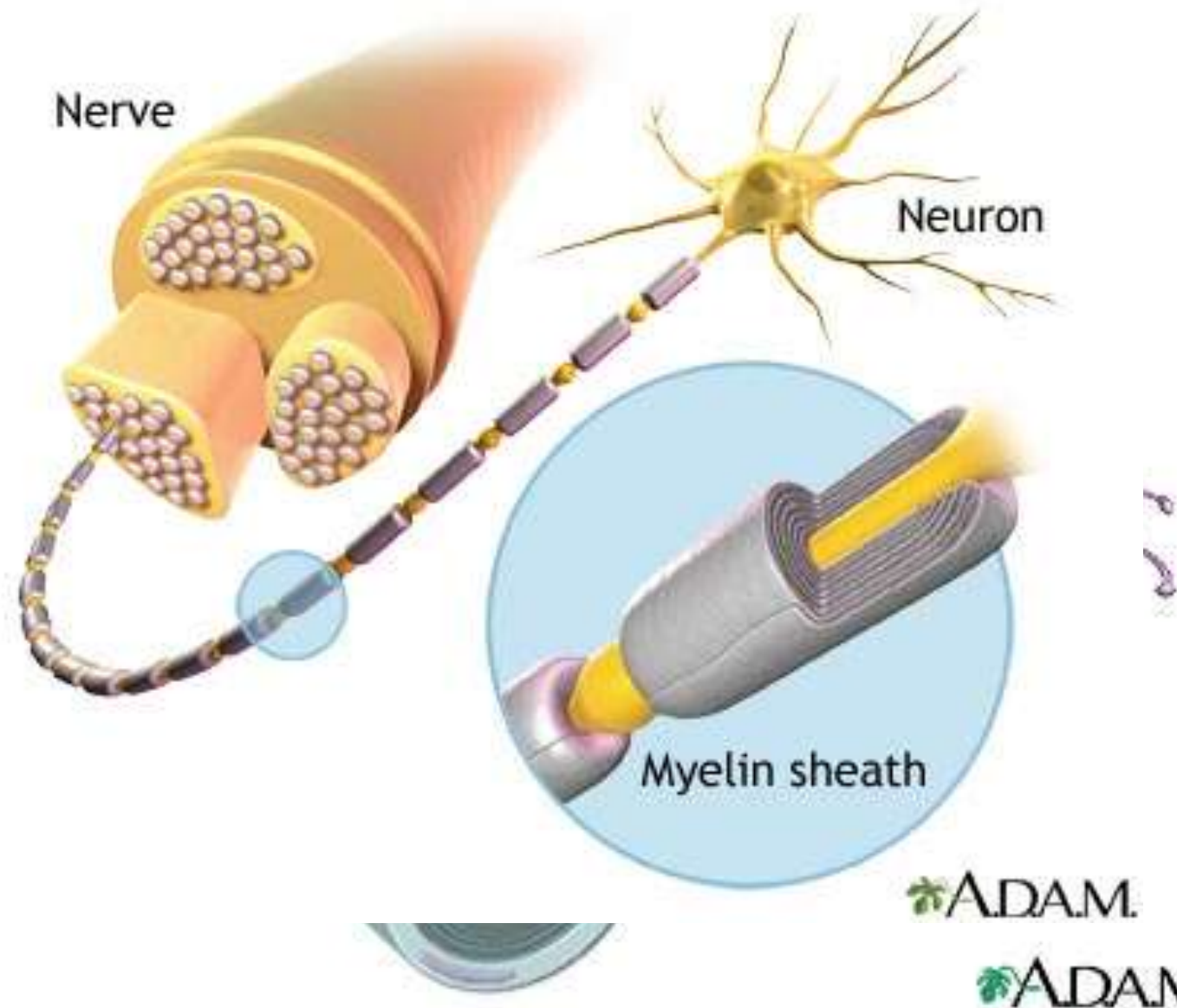
- Collect information about what's happening in and around the body

Motor Neurons

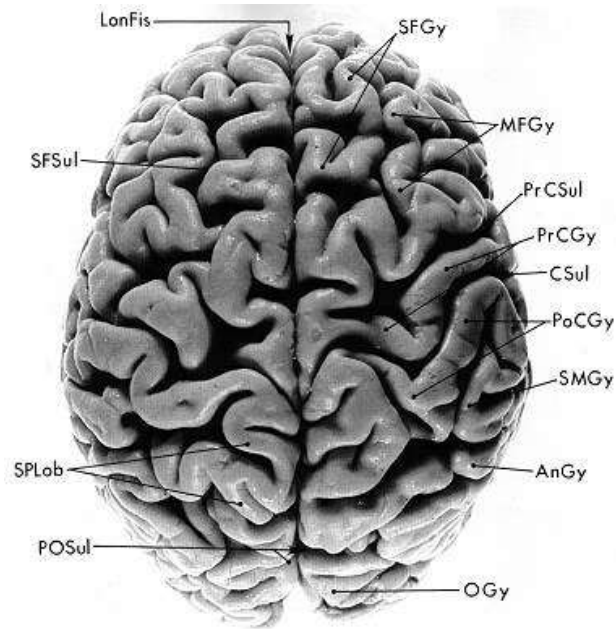
- Delivers instructions
- Tells your body to move (contract muscles)



Nerves= bundles of axons



Central Nervous System



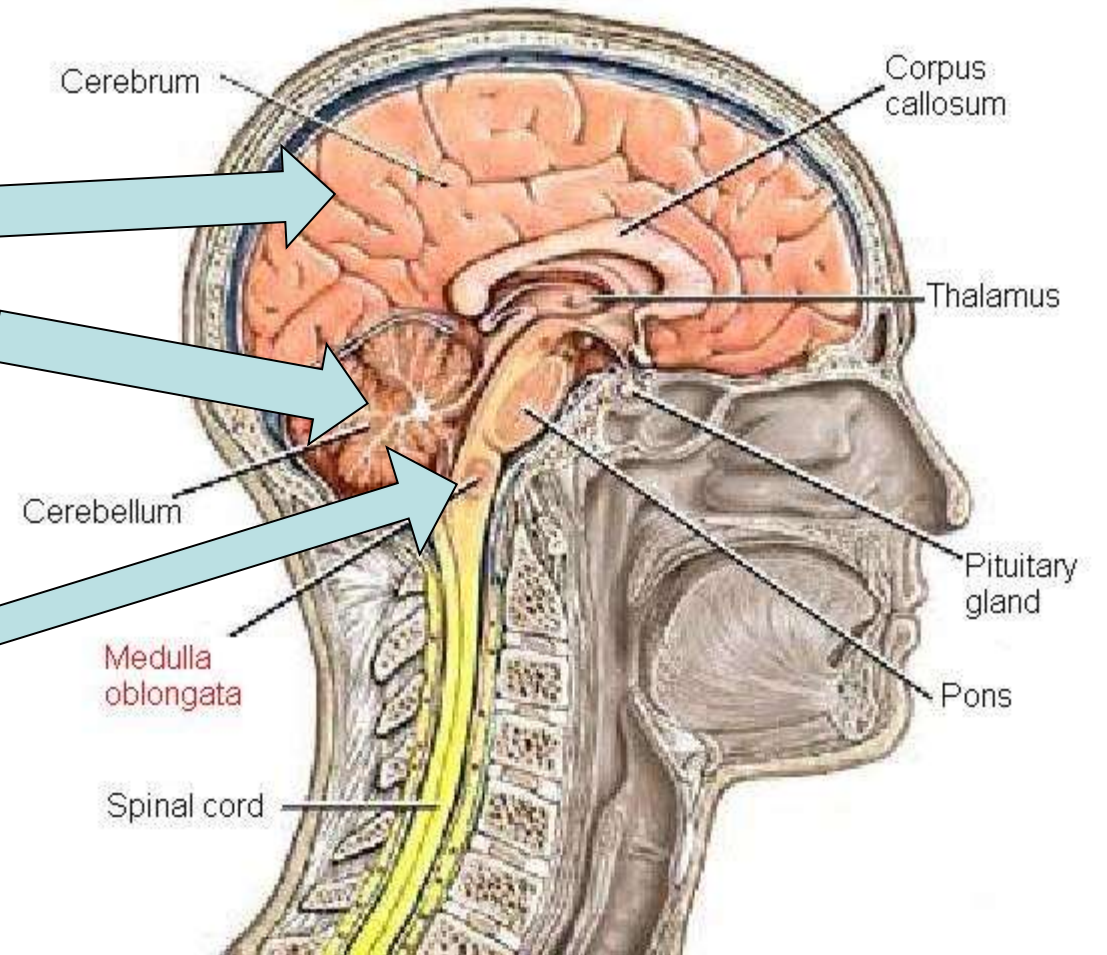
Hemispheres

R= left control (artistic)

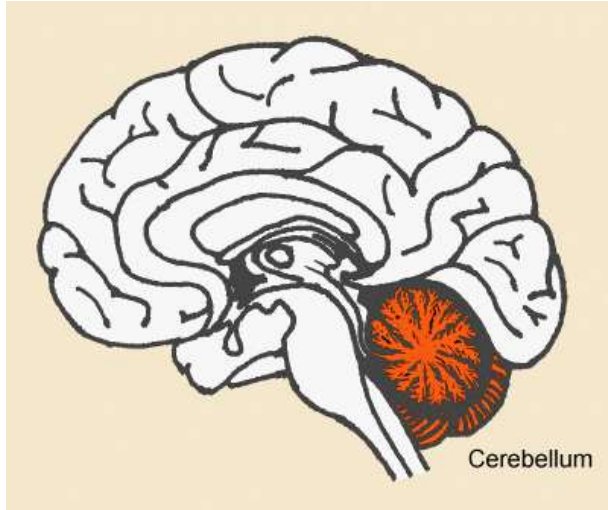
L= right control (logical)

The Brain

- cerebrum
- cerebellum
- medulla

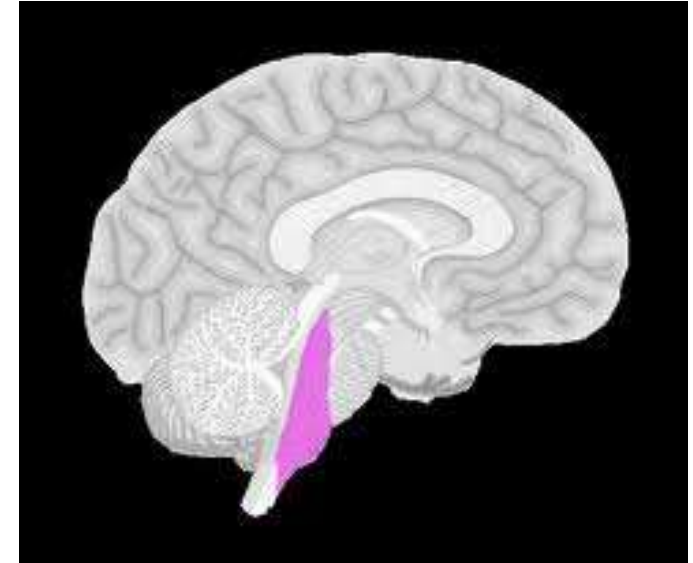


Central Nervous System



The Brain

- cerebrum
- cerebellum
- medulla

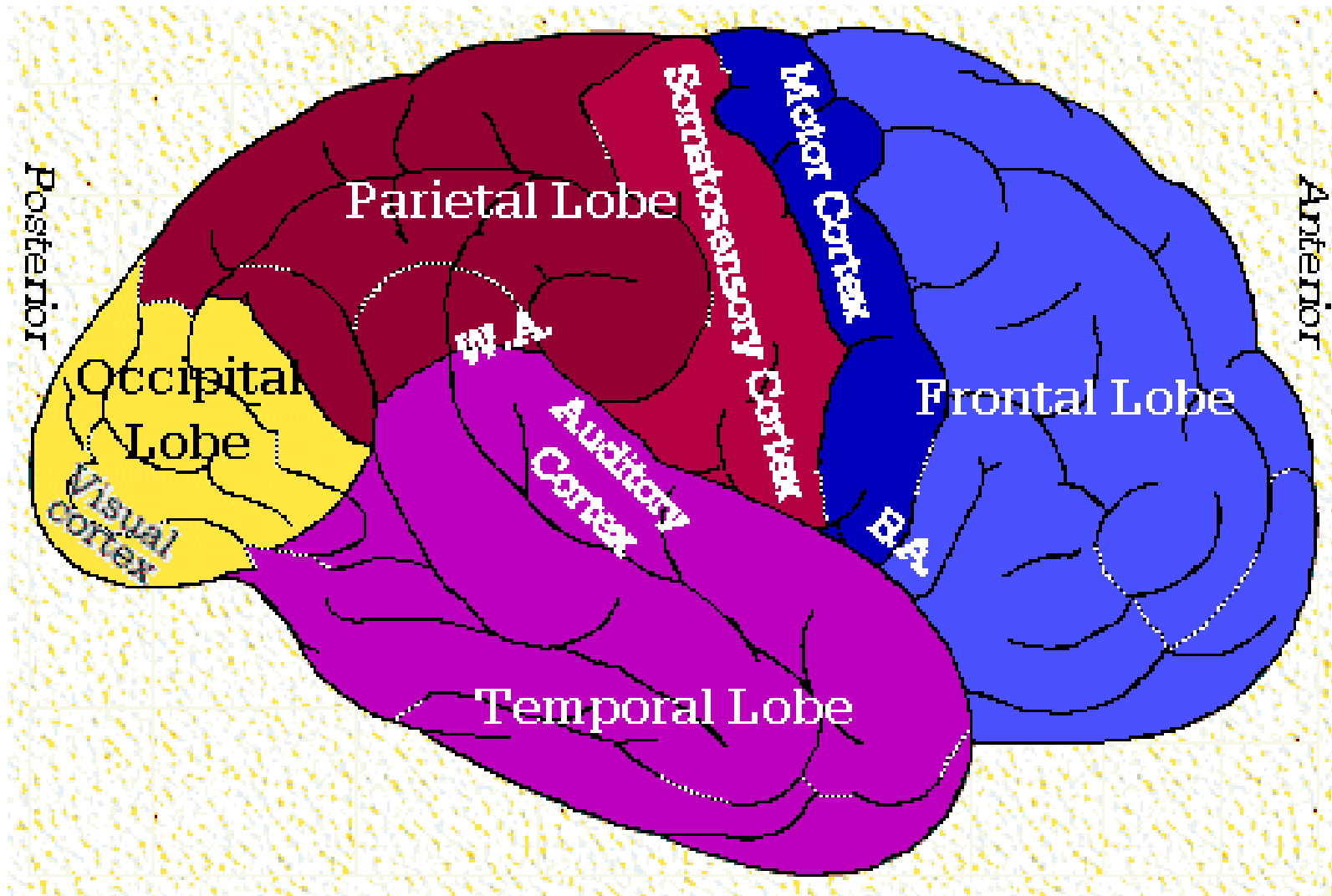


- Skeletal muscles and joints
- Keeps track of body's position
- Maintains balance

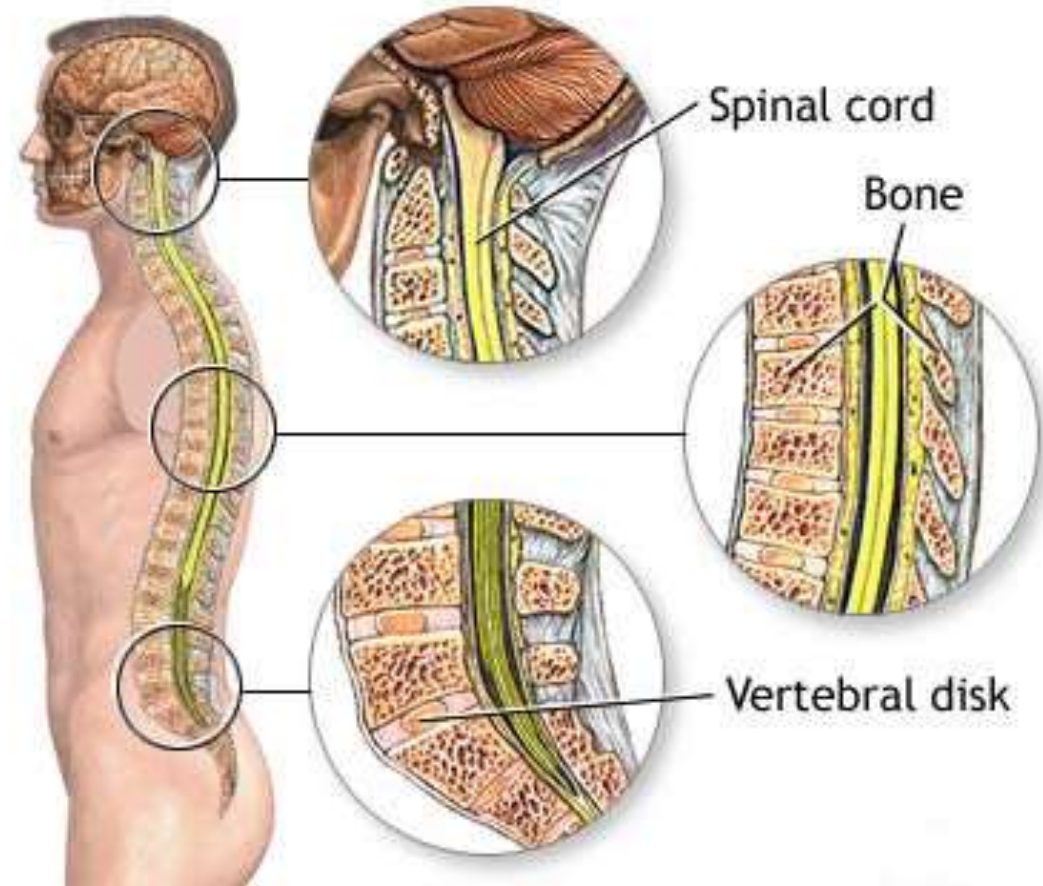
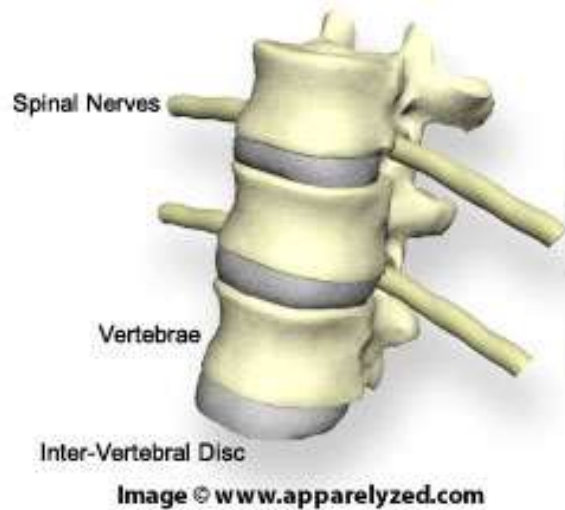
3cm

Controls

- blood pressure
- heart rate
- breathing

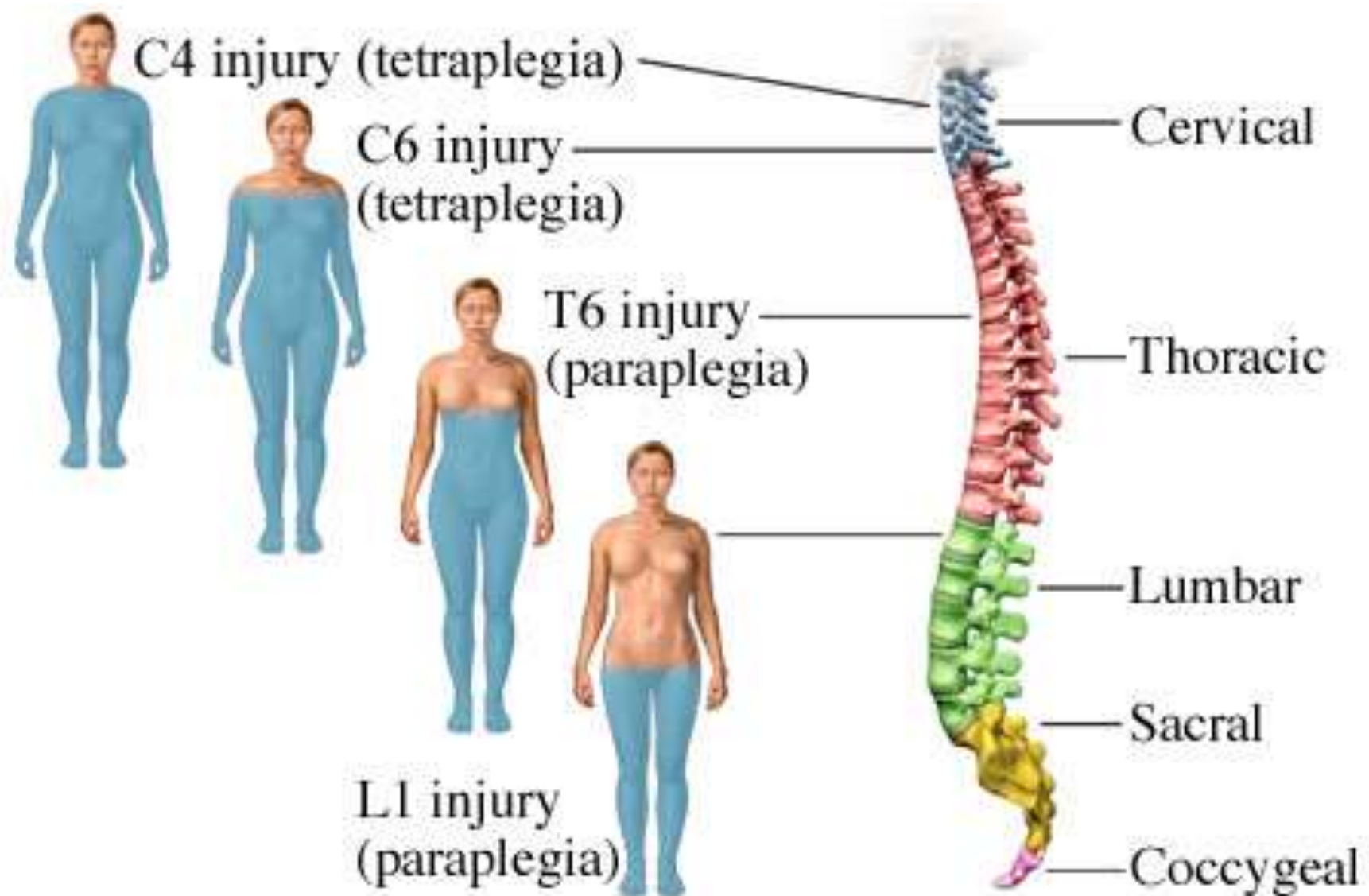


Central Nervous System



Spinal Cord

- vertebrae protect nerves



Your turn...

Color and cut out a brain and a spinal cord, then paste on your body outline.

Please label the following on your body cutouts:

- brain
- spinal cord