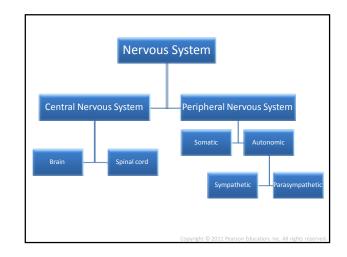
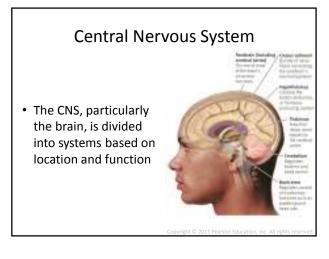
Brain-Behavior Network

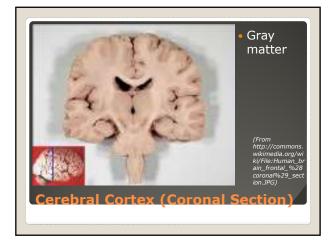
- Sensory information comes into—and decisions come out of—the central nervous system (CNS)
- The nerves outside the CNS are called the peripheral nervous system (PNS)

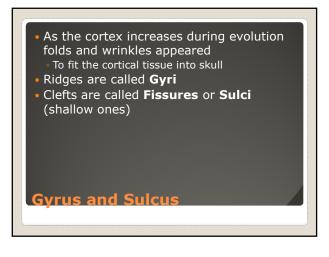


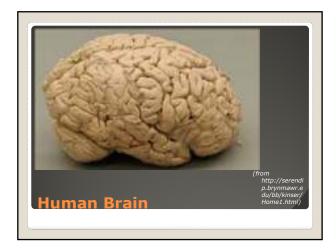


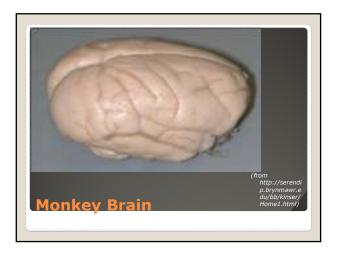
Cerebral Cortex

• The **forebrain** is the most developed area of the human brain, giving us our advanced intellectual abilities









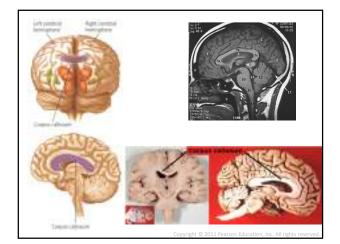


- Anatomy of the human brain is similar to the brain of rat or monkey
 There are no neurons that are unique to
- There are no neurons that are unique to humans
- The relative size of the human brain is the biggest in all mammals
- The relative surface area of cerebral cortex of human brain far exceeds that of other mammals
- Human brain continues to develop after birth
 The rate of growth after birth is higher humans compared to monkeys

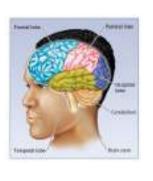
Human vs. Animal Brains

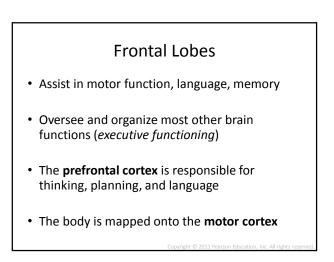
Cerebral Cortex

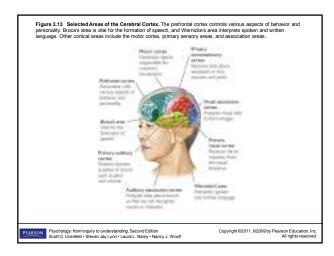
• Consists of two **cerebral hemispheres** corrected by the **corpus collosum** which allows communication between them

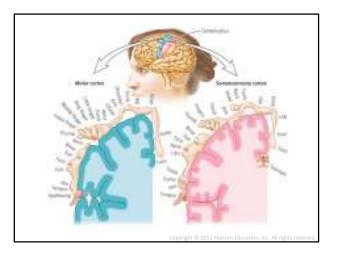


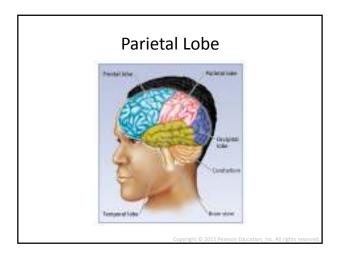
- Majority of the forebrain is composed of the cerebral cortex
- Can be divided into four lobes, each associated with a different function

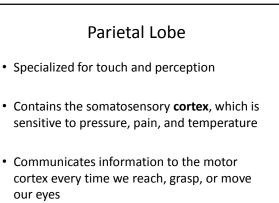


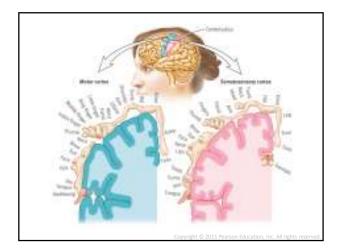


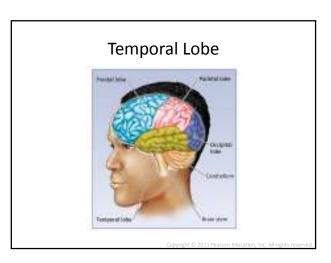


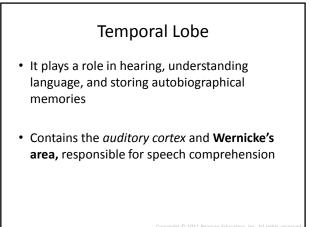


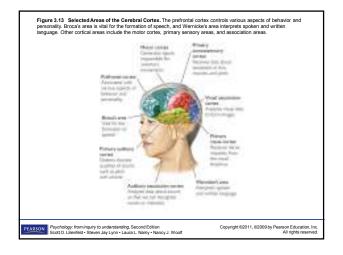


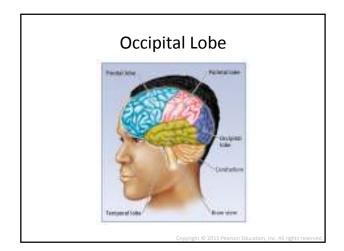








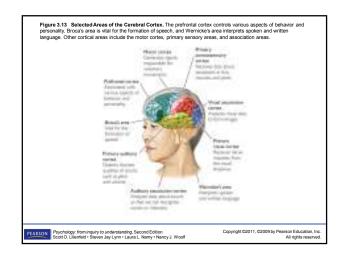


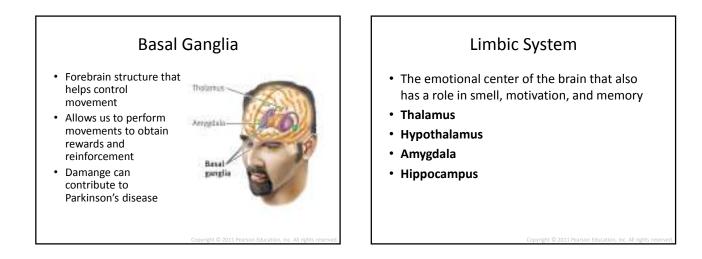


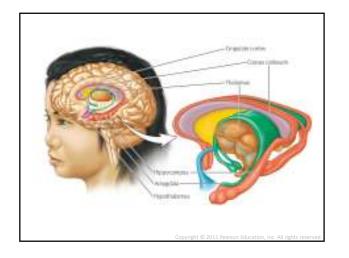


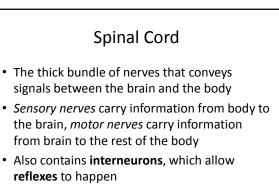
Cortical Hierarchies

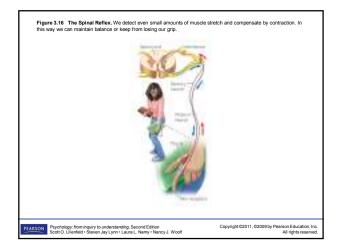
 When sensory information enters the brain, it first goes to that sense's primary sensory cortex, then to the association cortex

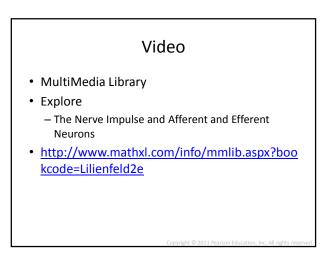


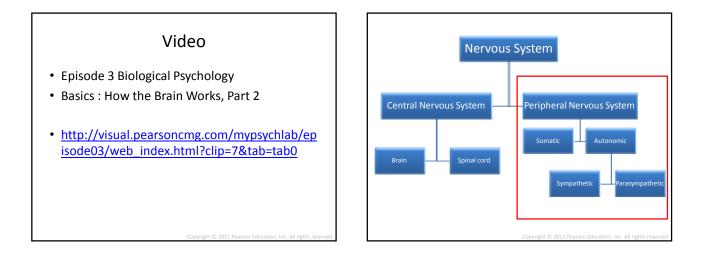












Peripheral Nervous System

- Somatic nervous system conveys information between the CNS and the body, controlling and coordinating voluntary movement
- Autonomic nervous system controls the involuntary actions of our internal organs and glands; has two divisions

Peripheral Nervous System

- Sympathetic division is engaged during a crisis or after actions requiring *fight or flight*
- Parasympathetic division controls rest and digestion



