

6/6/12

Describe the organization of the rep sys, listing the organs involved in respiration, from cellular level to the lungs

Know the mechanics of breathing

**Explain the divisions of the nervous system and describe the histology and function of nervous tissue**

**What are the 4 main functional regions of the brain? Name what each region is comprised of, and the basic function of each area.**

**1. Cerebral Hemispheres**

**Cerebrum**

**Cerebral Cortex**

**1. Motor areas – primary motor cortex (controls movt), pre motor cortex, Broca's Area (speech)**

**2. Sensory areas – Primary somatosensory cortex, somatosensory association area, gustatory, vestibular**

**3. Association areas – anterior, posterior, and limbic**

**2. Diencephalon – thalamus (hormones production), hypothalamus, epithalamus**

**3. 3. Brain Stem – Midbrain, pons, medulla**

**4. Cerebellum – processing of motor activity and cognitive function**

**\* Elaborate on the nebulungs**

**PNS – Peripheral Nervous System**

**2 functional divisions**

**1. Sensory (afferent) division**

- **Somatic afferent fibers – convey impulses from skin and joints**
- **Visceral afferent fibers – convey impulses fro visceral organs**

**2. Motor**

**Motor (efferent) division (know these in detail)**

**1. Somatic (voluntary)**

**2. Autonomic (involuntary)**

**Autonomic Nervous System**

- **This is our bodies auto pilot**
- **Most organs are under dual innervation**

**Histology of nervous tissue \*\*\*\*\***