**Outline: First Part of the Nervous System**

**Basics**

3 Functions of the Nervous System

Divisions of the Nervous System

Neuroglia – Functions and Types (6)

Neuron Anatomy

* \*Know diagram given on worksheet (from workbook)

Terms used for CNS vs. PNS

Irritability vs. Conductivity

**Brain**

\*Know Diagrams from workbook page 139 and 140

Regions

* Cerebrum/Cerebral Hemispheres
  + Gyri vs. Sulci vs. Fissure
  + Frontal, Parietal, Occipital, Temporal
    - KNOW AREAS FOR EACH (where functions are located – use diagram in notes for help)
  + Precentral and Postcentral Gyrus
  + Longitudinal Fissure
  + Central Sulcus
  + Cortex/Grey Mater, White Mater, Basal Nuclei
    - Corpus Collosum
* Diencephalon
  + Thalamus, Hypothalamus, Epithalamus
    - Know functions and relative location of each
* Midbrain
  + Midbrain, Pons, Medulla - Reticular Formation
    - Know functions and relative location of each
    - Cerebral Peduncles and Corpora Quadrigemina (in Midbrain)
* Cerebellum
  + Know function and relative location

Protection

* Skin and Scalp
* Skull and Vertebrae
* Meninges (Dura Mater, Arachnoid Mater, Pia Mater)
* Cerebral Spinal Fluid (Choroid Plexus)
  + CSF Pathway of Flow
    - Ventricles, Central Canal, Subarachnoid Space, Arachnoid Villi, Dural Venous Sinuses
* Blood-Brain Barrier

Brain Injuries

* Concussion
* Contusion
* Cerebral Edema
* CVA / Stroke
  + Hemiplegia, Aphasia, Transischemia
* Alzheimer’s Disease

Cranial Nerves

* Names of functions of the 12 cranial nerves (Chart on pages 258 -259 can help also)