**Detailed Study Chart to Aid Learning About Brain Structure**

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|  | **Brain Structure** | Location | **Function** |
| Cerebral Cortex (Cerebrum) | Frontal Lobe |  |  |
| Prefrontal Cortex  Primary Motor Cortex |  |  |
| Broca’s Area |  |  |
| Parietal Lobe |  |  |
| Somatosensory Strip |  |  |
| Temporal Lobe |  |  |
| Auditory Cortex |  |  |
| Wernicke’s Area |  |  |
| Fusiform face area | Right hemisphere in the Fusiform gyrus | Facial recognition area |
| Occipital Lobe |  |  |
| Visual Cortex  Visual areas V1-V5 | Layers of the visual cortex | Increased processing of visual info |
|  | Corpus Callosum |  |  |
|  | Basal Ganglia | Interior of each hemisphere below the corpus callosum and near the limbic system | Learns, remembers and coordinates voluntary movement |
| Limbic System | Cingulate Gyrus | On the interior sides of both hemispheres | Helps regulate emotion and pain Monitors and guides behavior Helps predict negative consequences |
| Hippocampus |  |  |
| Amygdala |  |  |
| Hypothalamus |  |  |
|  | Pituitary Gland |  |  |

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|  | Thalamus Lateral geniculate nucleus  Medial geniculate nucleus | Primary relay center for vision  Primary relay center for hearing |  |
|  | Cerebellum |  |  |
| Brain  Stem | Pons |  |  |
| (Reticular Activating System) |  |  |
| Medulla |  |  |
|  | **Spinal Cord** |  |  |