Biomedical Science

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**Intro to the Brain**

*Structure &**Function*

**Part One: Do some online research to identify regions or lobes of the brain.**

Fill in the left column with which brain component is mostly responsible for the functions listed on the right.

|  |  |  |
| --- | --- | --- |
| 1. |  | Regulates sleep, hunger, thirst, body temperature, blood pressure, and fluid level to maintain homeostasis |
| 2. |  | Lobe responsible for speech production, concentration, problem solving, planning, and voluntary muscle control, personality |
| 3. |  | Lobe for vision, recognizing objects visually, and combining images received visually |
| 4. |  | Lobe for general interpretation area, understanding speech, ability to use words, and sensations including heat/cold, pressure, touch, and pain |
| 5. |  | Responsible for involuntary functions such as breathing and the beating of your heart, also for blood pressure, and automatic reactions such as coughing, vomiting, sneezing, and swallowing |
| 6. |  | Transfers sensations collected from the body (except olfaction) and relays them to the cerebrum |
| 7. |  | Lobe for interpretation of sensations, remembering visually, remembering through sounds, speech and hearing |
| 8. |  | Joins the cerebellum to the cerebral hemispheres, responds to information collected from the eyes and ears |
| 9. |  | A relay station for information coming from the spinal cord to the cerebrum, or between the cerebrum and the cerebellum |
| 10. |  | Coordinates skeletal muscle movements, making them smooth and graceful, responsible for posture, balance, and general coordination |
| 11. |  | The highest control center of conscious action |

**Part Two: External Brain Geography**

Label all the brain parts for both diagrams.

A. The three major brain regions

B. The subdivisions of the cerebral cortex



**Part Three: Internal Anatomy**

For the image below, label the parts and color code major regions.

Create a color key below.



Color Key