

## **Brain Fact Sheet — Parts of the Brain**

### **Cerebral Cortex: right and left hemispheres**

- Largest part of the brain
- Most highly developed part of the brain
- Controls thinking, perceiving, and understanding language
- Corpus callosum connects the two hemispheres

### **Right hemisphere**

- Controls the left side of the body
- Responsible for artistic expression and understanding relationships in space

### **Left hemisphere**

- Controls the right side of the body
- Responsible for mathematical ability, problem solving, language, and decision making

### **Cerebellum**

- Controls posture, movement, and sense of balance

### **Brain Stem: two main parts - pons and medulla**

- Brain's most primitive part
- Controls simple reflexes, such as coughing, sneezing, and digestion
- Pons contains the fibers that connect the cerebral cortex with the cerebellum and spinal cord, and also controls sleep, awakening, and dream onset
- The medulla controls heart rate, respiration, and blood pressure

### **Limbic System: two main parts - hippocampus and amygdala**

- Hippocampus is responsible for learning and memory
- Amygdala plays an important role in emotional behavior

## Brain Fact Sheet — Lobes of the Brain

### Frontal lobe

- Located behind the forehead, extending back to the parietal lobe
- Responsible for initiating and coordinating motor movements and higher cognitive skills like problem solving and thinking

### Parietal lobe

- Located behind the frontal lobe
- Processes sensory information from the whole body (information about pain, touch, and pressure)

### Occipital lobe

- Located in the back of the brain
- Processes all the visual information coming into the brain

### Temporal lobe

- Located behind the temples and just above the ears
- In charge of making sense of the information you hear
- Integrates information from various senses, such as smell and vision

# Brain Instruction Sheet

