

LESSON: Lobes of the Brain

Materials: Brain model (if available), image of labeled lobes

Goal: Describe and demonstrate through relatable examples, the basic parts of the brain.

Pass around brain model as we talk about the different lobes

Also have image projected or drawn on white board while talking about function

Frontal: Executive decision making, thinking, planning, motor, emotions (remember Phineas Gage?)

Temporal: Memory, language, categorizing objects, recognizing faces, hearing

Parietal: Somatosensory mapping, touch perception, arithmetic, manipulation of objects

Occipital: Vision

Also Cerebellum: Coordination of movement and balance

Brain Stem: Basic life functions like breathing, heartbeat, blood pressure

- Fun Fact: The left part of body is controlled by the right hemisphere of brain, and right part of body is controlled by the left!
 - o Bonus word: Decussation – To cross over

Time: ~15 minutes

Corresponding Activity: Have students place hands on their head to show where each lobe is. We can demonstrate, and then have the kids do it.

Example Image: <https://faculty.washington.edu/chudler/gif/slobes.jpg>

Source: Neuroscience for Kids - <https://faculty.washington.edu/chudler/neurok.html>

Time: ~5 minutes

ART PROJECT: Mind Maps

Supplies: Drawing paper, lots of crayons/colored pencils.

Goal: Now that students know the function of each brain lobe, they will draw out a brain on their paper and then draw in different things that remind them of the function of each lobe (i.e. Occipital-eyes, Temporal-important memory, Parietal- math equation, hand holding object, Frontal- happy face, etc).

If some of the students have difficulties thinking of one or two of the lobes we will remind, assist, and encourage them.

Time: ~20 minutes

This is a project that would be fun to hang up outside the classroom or somewhere inside.

Representation of what it might look like – <http://aliciabates.edublogs.org/files/2013/08/brain-1x9tot8.jpg> Source: Psychteaching - <http://aliciabates.edublogs.org/>

Example result from the 2014 Summer program at Sabin K-8:

