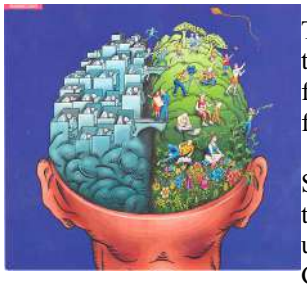
UNIT 3: BIOLOGICAL BASES OF BEHAVIOR PROJECT

For this unit, you will have a project that is in lieu of your LOQs for this unit. You may choose to do this project with a partner or by yourself.

PROJECT DUE DATE: Friday, September 01, 2017



This activity challenges you to create a visual metaphor representing all the various aspects of the brain, the body, and their interaction. You will create a metaphor that represents key ideas from chapter 2. You will be graded on content and analysis of the interplay of the structure and function.

Spend some time brainstorming ideas for the metaphor. If your metaphor does not lend itself to the task, you will not be able to make symbolic connections. To create your metaphor, you can use PowerPoint or Prezi. You will upload the metaphor (PowerPoint or Prezi link) to your Google drive account or a removable flash drive. The second portion of the assignment is your explanation of the metaphor you created. This explanation should be uploaded to your Google drive account or a removable flash drive as well. My email address is rosemary.ahonen@henry.k12.ga.us.

REQUIREMENTS

1. Design your visual metaphor to show your understanding of the key parts of the brain.
   a. You must include (but are not limited to) the following:
      - ✓ Left Brain/Right Brain differences
      - ✓ Corpus Callosum
      - ✓ Cerebrum (not the cerebrum itself, but its parts. Keep them thematic.)
        - its four lobes and what they do
        - Frontal Lobe (final decision maker)
          - Primary Motor Cortex
        - Parietal Lobe (receives most sensory info)
          - Primary Somatosensory Cortex
        - Temporal Lobe (hearing and language)
        - Occipital Lobe (sight)
      - ✓ Limbic System
        - Hypothalamus
        - Hippocampus
        - Amygdala
        - Thalamus
        - Cerebellum
      - ✓ Brain stem
        - Medulla
        - Pons
        - Reticular Formation
      - ✓ THE BODY
      - ✓ Both the Peripheral and Central Nervous Systems

   b. You may include the following for extra credit:
      - ✓ The Neuron System
      - ✓ The Endocrine System
      - ✓ The more in depth you go, the more points you earn.

2. Carefully choose the best metaphor you can – one that lends itself to the project.
3. You must create bold, detailed visuals and clearly label comparisons between your metaphor and the key items listed on #1.
4. For each part of the metaphor, include an explanation of TWO SENTENCES MINIMUM on how your metaphor label matches each part of the brain. This can be done underneath the picture that represents the

structure. For example, in my Cruise Ship metaphor, the Cruise Director would be labeled the Limbic System and the explanation would be: "The Cruise Director, like the Limbic System, is the emotional, motivational center. Orders from him determine how people feel about the cruise, and what customers MOST remember about it. Under the command of the CD are the restaurant manager, the party director, and the island tours." Now this lets you go directly to the other parts of the Limbic System and how they control hunger, pleasure, etc. Create a label, symbol and explanation for each part of the Limbic System. Attach the explanation to the back of the metaphor.

5. Give the visual metaphor an appropriate title. Write the title in BIG, **BOLD** letters. Be CREATIVE!!!

6. In your explanation of the metaphor, list 3 ways the metaphor you created does NOT represent the brain.

Here's how you'll be graded:

20 points – **Metaphorical Interpretation** – the metaphor is thematic and INTERNALLY COHESIVE.
10 points – **Good symbolic choices are displayed.**
60 points – **Completely and clearly explains metaphor in your paper**
5 points – **Visual Presentation** – visual elements are laid out in an interesting and colorful way.
5 points – **Explanation Statements** – 3 reasons "WHY NOT" are well thought out. You can include the WHY NOT in your written explanation of the metaphor.