

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The main title is centered in a large, bold, black sans-serif font.

# BIOLOGICAL BASIS OF BEHAVIOR: CHAPTER 3

SUPA PSY 205: THE BRAIN

# FOR THE WEEK...REVISED!

- WEDNESDAY, SEPT. 18<sup>TH</sup>: MR. FOX WITH “RESEARCH METHODS TO STUDY THE BRAIN”
- THURSDAY, SEPT. 19<sup>TH</sup>: “LATERALITY” & “EVOLUTIONARY BASIS OF BEHAVIOR”
- FRIDAY, SEPT. 20<sup>TH</sup>: QUIZ ON CHAPTER 3



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**BUT FIRST...**

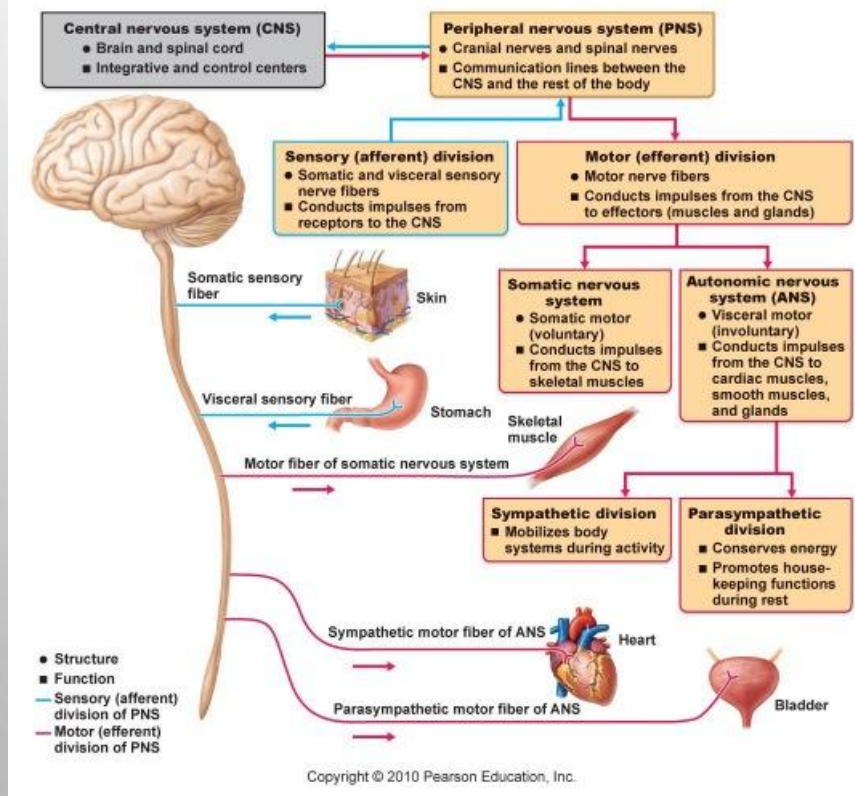
NAME THAT NEUROTRANSMITTER  
GAME!

# TO REVIEW

- NEURONS ARE THE BUILDING BLOCKS OF THE NERVOUS SYSTEM
- NEURONS CAN COMMUNICATION WITHIN (ACTION POTENTIAL) AND BETWEEN (NEURONAL TRANSMISSION) EACH OTHER
- NEUROTRANSMITTERS ARE THE MESSENGERS OF BETWEEN-NEURON COMMUNICATION
- THE CENTRAL NERVOUS SYSTEM HAS SEVERAL DIVISIONS THAT ORGANIZE FUNCTION

# ORGANIZATION OF THE NERVOUS SYSTEM

- CENTRAL NERVOUS SYSTEM
- PERIPHERAL NERVOUS SYSTEM



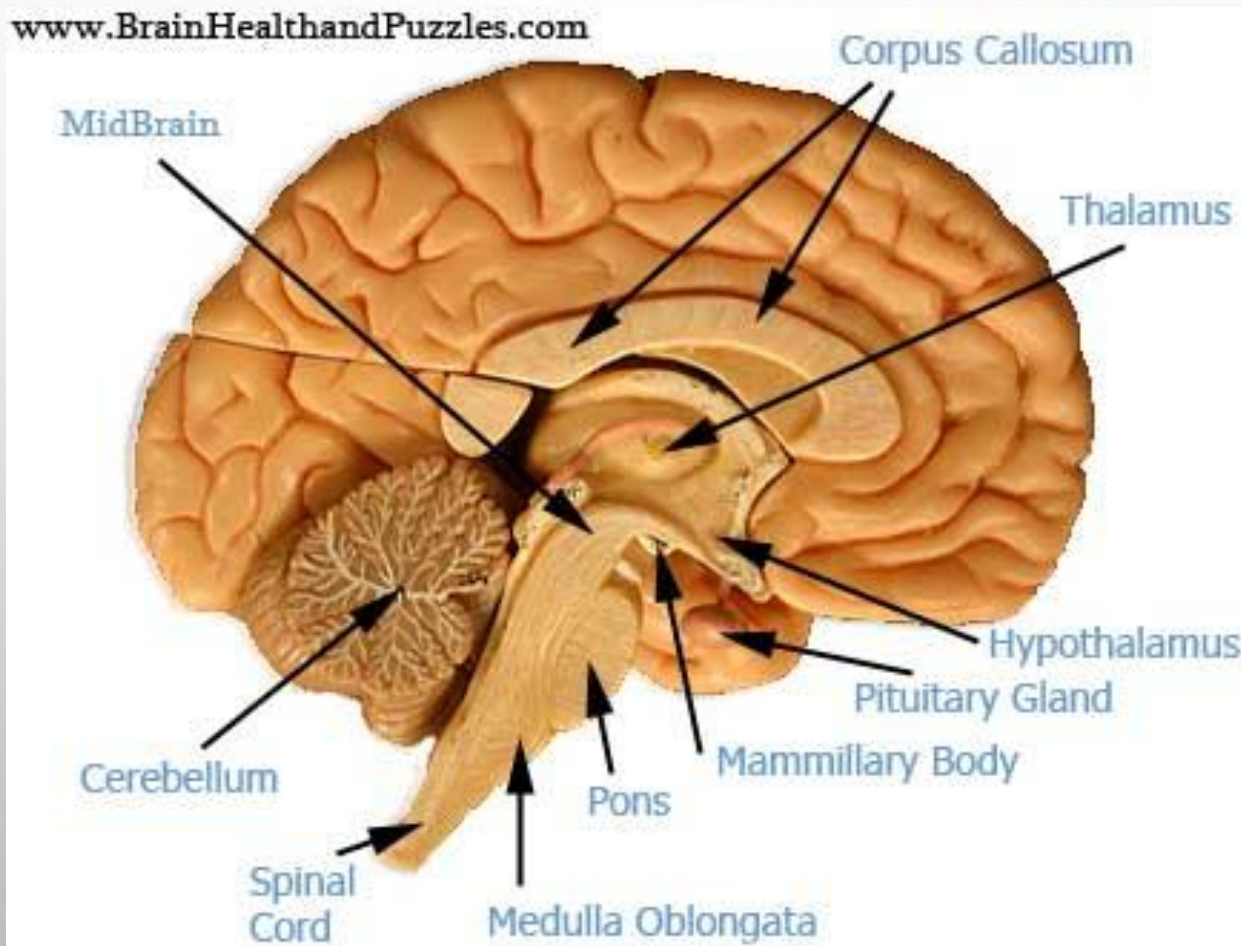
- AFFERENT PATHWAYS
- EFFERENT PATHWAYS
- SOMATIC
- AUTONOMIC
  - SYMPATHETIC
  - PARASYMPATHETIC

# SOME RESOURCES FOR THE PARTS OF THE BRAIN...

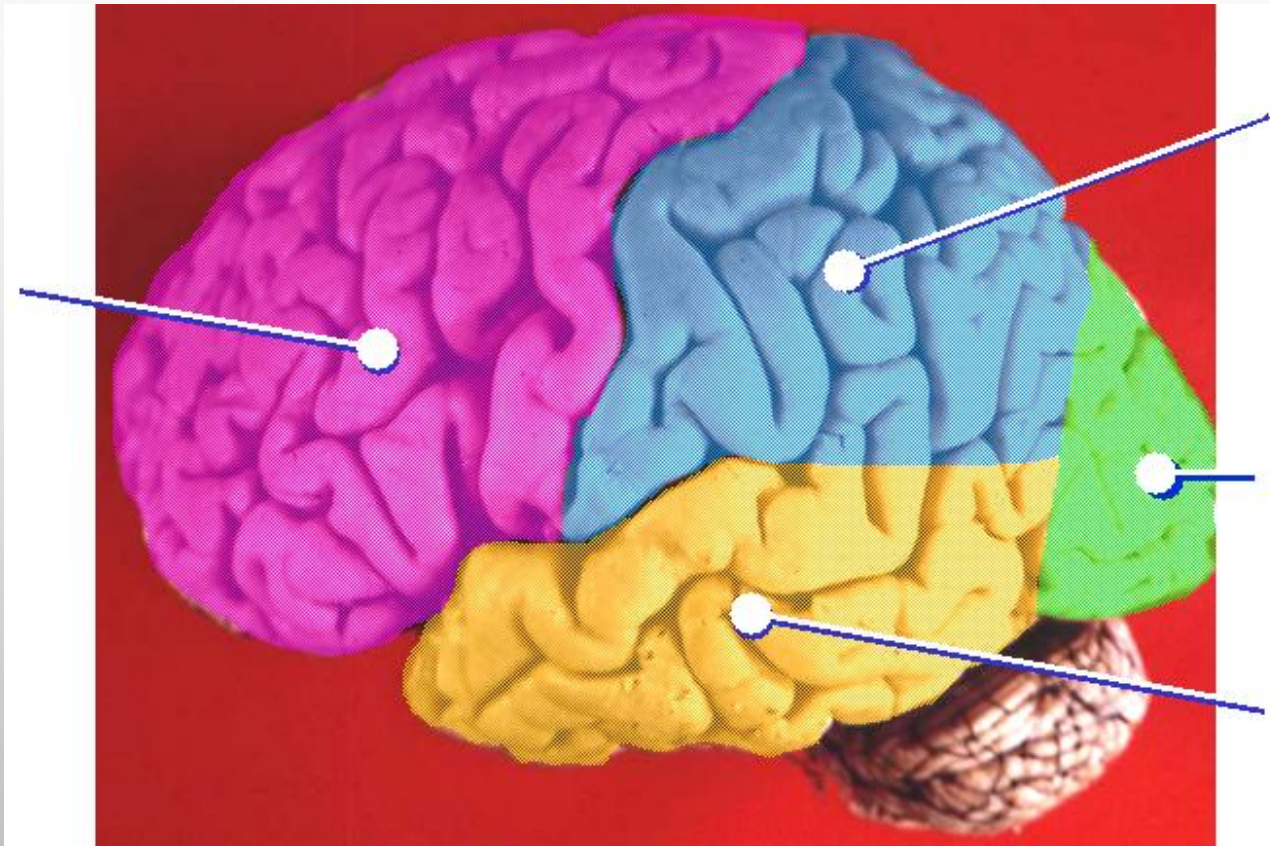
- [HTTP://WWW.YOUTUBE.COM/WATCH?V=VYWOTTMUZ0C](http://www.youtube.com/watch?v=VYWOTTMUZ0C)
- [HTTP://WWW.BRAINLINE.ORG/MULTIMEDIA/INTERACTIVE BRAIN/THE HUMAN BRAIN.HTML?GCLID=CKDOID2Z0RKCFYWE4AOD3YSARG](http://www.brainline.org/multimedia/interactive_brain/the_human_brain.html?gclid=CKDOID2Z0RKCFYWE4AOD3YSARG)

# MAJOR STRUCTURES IN HUMAN BRAIN: FILL IN THE WORKSHEET

[www.BrainHealthandPuzzles.com](http://www.BrainHealthandPuzzles.com)



# BRAIN LOBES





# BUILD YOUR OWN BRAIN

- OUT OF MARSHMALLOWS!
- MAKE SURE THAT YOU INCLUDE THE BRAINSTEM AND THE FOUR LOBES OF THE CEREBELLUM: THE FRONTAL LOBE, OCCIPITAL LOBE, PARIETAL LOBE, AND TEMPORAL LOBE

# REVIEW: DIVISIONS OF THE CNS

- T OR F: THE AUTONOMIC NERVOUS SYSTEM INCLUDES THE VOLUNTARY MOTOR NEURONS AND HAS TWO DIVISIONS: SYMPATHETIC AND PARASYMPATHETIC
- T OR F: THE PARASYMPATHETIC NERVOUS SYSTEM HELPS OUR BODIES CONSERVE ENERGY AND RESOURCES
- T OR F: THE SPINAL CORD IS PART OF THE PERIPHERAL NERVOUS SYSTEM
- T OR F: EFFERENT PATHWAYS OF THE PNS MOVE INFORMATION FROM THE BODY TO THE CNS, WHILE AFFERENT PATHWAYS RELAY MESSAGES FROM THE BRAIN TO THE BODY, MUSCLES, AND ORGANS

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**REVIEW: WHICH PART  
OF THE BRAIN GAME?**