AP Psychology – Unit 2 – ‘BioPsych’ Terms

**The Nervous & Endocrine Systems**

1. Biological Psychology
2. Neuron (DSAT)
3. Sensory Neurons
4. Motor Neurons
5. **D**endrite
6. **S**oma / Cell Body
7. **A**xon
8. Myelin Sheath
9. **T**erminal Branches / Buttons
10. Resting Potential
11. Action Potential
12. Firing Threshold
13. Synapse
14. Reuptake
15. Refractory Period
16. Glial Cells
17. Neurotransmitters (*can be excitatory or inhibitory)* 
    1. Acetylcholine
    2. Dopamine
    3. Endorphins
    4. Epinephrine
    5. G.A.B.A.
    6. Glutamate
    7. Seratonin
    8. Substance B
18. Agonist – *amplifies NT action*
19. Antagonist – *inhibits NT action*
20. Nervous System
21. Central Nervous System (CNS)
22. Peripheral Nervous System (PNS)
23. Somatic Nervous System
24. Autonomic Nervous System
25. Sympathetic Nervous System
26. Parasympathetic Nervous System
27. Reflex
28. Endocrine System
29. Hormones – *messengers carried in bloodstream*
30. Adrenal Glands – secretes *fight or flight hormones, adrenaline*
31. Pineal Gland – ‘zzzzzzzz’
    1. Melatonin
32. Pituitary Gland – *master gland*
    1. *Oxytocin*
    2. *HGH*

**The Brain**

1. Specificity
2. Lesion
3. Brainstem
4. Medulla
5. Pons (sleep, dreaming)
6. Reticular Formation (filters out irrelevant information…vast majority of unimportant ‘stuff’ does not get sent to higher brain…also ALERTS YOU TO INCOMING STIMULI)
7. Thalamus
8. Cerebellum
9. Limbic System
10. Amygdala
11. Hypothalamus
12. Hippocampus
13. Cerebrum
14. Cerebral Cortex (FPOT)
15. **F**rontal Lobes
16. **P**arietal Lobes
17. **O**ccipital Lobes
18. **T**emporal Lobes
19. Motor Cortex
20. Sensory Cortex
21. Association Cortex ☺?
22. Aphasia
23. Broca's Area
24. Wernicke's Area
25. Brain Plasticity
26. Corpus Callosum
27. Contralaterization
28. Split Brain / Split Brain Research

**Brain Examination Methods**

1. MRI – shows structures
2. CAT - shows structures
3. EEG – shows changes in activity
4. PET – uses shot of radioactive substance, highlights glucose, and provides colorful images of brain activity/specificity
5. fMRI – newest, shows both structure and activity

**Genetics**

1. Genetic Determinism
   1. Down Syndrome, Turner Syndrome, Williams Syndrome, Phenylketonuria
2. Genetic Disposition
3. Heritability

Mnemonics

* FPOT (*for lobes of brain)*
* DSAT (*for parts of neuron)*
* WHAT ABOUT YOUR OWN…? YOURS ARE BETTER THAN MINE.

Analogies

* Lock & Key (*for communication of neurons)*
* Gun (*for firing of neuron)*
* Toilet (*for firing of neuron)*

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| Name Hall of Fame  Phineas Gage  Roger Sperry – Split Brain Research  Wildner Penfield – Mapping the motor and sensory areas of the cortex |

What else…?