**AP Biology – Final Exam Vocabulary Terms**

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| **Term** | **Definition** |
| ***Scientific Process*** |  |
| 1. Dependent Variable |  |
| 1. Independent Variable |  |
| 1. Variable |  |
| ***Biochemistry*** |  |
| 1. Amino acid |  |
| 1. Amphipathic |  |
| 1. Carbohydrate |  |
| 1. Denaturation |  |
| 1. Hydrogen Bond |  |
| 1. Ion |  |
| 1. Lipid |  |
| 1. Macromolecule |  |
| 1. Monomer |  |
| 1. Monosaccharide |  |
| 1. Non-polar molecule |  |
| 1. Nucleic acid |  |
| 1. Nucleotide |  |
| 1. Phospholipid |  |
| 1. Polar molecule |  |
| 1. Protein |  |
| ***Evolution*** |  |
| 1. Adaptation |  |
| 1. Adaptive radiation |  |
| 1. Allele |  |
| 1. Analogous structure |  |
| 1. Artificial selection |  |
| 1. Coevolution |  |
| 1. Convergent evolution |  |
| 1. Founder effect |  |
| 1. Gene flow |  |
| 1. Gene pool |  |
| 1. Genetic bottleneck (bottleneck effect) |  |
| 1. Genetic drift |  |
| 1. Genotype |  |
| 1. Hardy-Weinberg Equation |  |
| 1. Phenotype |  |
| 1. Phylogeny |  |
| 1. Polymorphism |  |
| 1. Directional selection |  |
| 1. Disruptive selection |  |
| 1. Divergent evolution |  |
| 1. Endosymbiosis |  |
| 1. Evo-devo |  |
| 1. Homologous structure |  |
| 1. Miller-Urey Experiments |  |
| 1. Molecular clock |  |
| 1. Mutation |  |
| 1. Reproduction isolation |  |
| 1. Rock strata |  |
| 1. Speciation |  |
| 1. Vestigial Organ |  |
| ***Classification & Biological Diversity*** |  |
| 1. Archaea |  |
| 1. Bacteria |  |
| 1. Eukarya |  |
| 1. Monophyletic |  |
| 1. Order |  |
| 1. Paraphyletic |  |
| 1. Phylogenetic tree |  |
| 1. Phylogeny |  |
| 1. Phylum |  |
| 1. Polyphyletic |  |
| ***Cells*** |  |
| 1. Active Transport |  |
| 1. Apoptosis |  |
| 1. Aquaporin |  |
| 1. Carrier protein |  |
| 1. Centrioles |  |
| 1. Channel Protein |  |
| 1. Cyclic AMP (cAMP) |  |
| 1. Concentration gradient |  |
| 1. Endoplasmic reticulum |  |
| 1. Glycolipid |  |
| 1. Glycoprotein |  |
| 1. Hormone |  |
| 1. Hypertonic |  |
| 1. Hypotonic |  |
| 1. Ion pump |  |
| 1. Isotonic |  |
| 1. Ligand |  |
| 1. Lysosome |  |
| 1. Plasmolysis |  |
| 1. Protein Kinase |  |
| 1. Receptor |  |
| 1. Rough ER |  |
| 1. Selectively permeable |  |
| 1. Signal transduction pathway |  |
| 1. Smooth ER |  |
| 1. Exocytosis |  |
| 1. Facilitated diffusion |  |
| 1. Phagocytosis |  |
| 1. Transmembrane protein |  |
| 1. Turgor |  |
| ***Cell Division*** |  |
| 1. Anaphase |  |
| 1. Cancer |  |
| 1. Cell cycle |  |
| 1. Cellular differentiation |  |
| 1. Centrioles |  |
| 1. Chromosome |  |
| 1. Crossing over |  |
| 1. Cyclin-dependent kinase |  |
| 1. Cytokinesis |  |
| 1. Fertilization |  |
| 1. Gamete |  |
| 1. Haploid |  |
| 1. Homologous chromosomes |  |
| 1. Independent assortment |  |
| 1. Interphase |  |
| 1. Meiosis |  |
| 1. Metaphase |  |
| 1. Mitosis |  |
| 1. Somatic cell |  |
| 1. Synapsis |  |
| 1. Telophase |  |
| ***Molecular Genetics*** |  |
| 1. Anticodon |  |
| 1. Codon |  |
| 1. DNA |  |
| 1. DNA ligase |  |
| 1. DNA Polymerase |  |
| 1. Exons |  |
| 1. Gene Induction |  |
| 1. Gene Repression |  |
| 1. Helicase |  |
| 1. HOX genes |  |
| 1. Hydrogen bonding |  |
| 1. Inducible genes |  |
| 1. Introns |  |
| 1. Lac operon |  |
| 1. miRNA |  |
| 1. Morphogenesis |  |
| 1. Okazaki fragments |  |
| 1. Polymerase chain reaction |  |
| 1. Restriction enzyme |  |
| 1. RNAi |  |
| 1. siRNA |  |
| 1. Transcription |  |
| 1. Translation |  |
| ***Mendelian Genetics*** |  |
| 1. Autosome |  |
| 1. Codominance |  |
| 1. Dihybrid cross |  |
| 1. Incomplete dominance |  |
| 1. Independent assortment |  |
| 1. Multiple alleles |  |
| 1. Non-disjunction |  |
| 1. Pedigree |  |
| 1. Test Cross |  |
| ***Metabolism*** |  |
| 1. Acetyl coA |  |
| 1. Activation energy |  |
| 1. Active site |  |
| 1. ATP |  |
| 1. Calvin Cycle |  |
| 1. Catabolism |  |
| 1. Catalyst |  |
| 1. Cellular respiration |  |
| 1. Chemiosmosis |  |
| 1. Citric acid cycle |  |
| 1. Electron transport chain |  |
| 1. Endergonic reaction |  |
| 1. Enzyme |  |
| 1. Exergonic reaction |  |
| 1. Fermentation |  |
| 1. Glycolysis |  |
| 1. Negative feedback |  |
| 1. Oxidative phosphorylation |  |
| 1. Photolysis |  |
| 1. Positive feedback |  |
| ***Physiology*** |  |
| 1. Action potential |  |
| 1. Circadian Rhythm |  |
| 1. Insulin |  |
| 1. Refractory period |  |
| 1. Diabetes |  |
| 1. Ectothermic |  |
| 1. Endothermic |  |
| 1. Glucagon |  |
| 1. Guard cells |  |
| 1. Homeostasis |  |
| 1. Mesophyll |  |
| 1. Motor neuron |  |
| 1. Myelin |  |
| 1. Neuron |  |
| 1. Neurotransmitter |  |
| 1. Nodes of Ranvier |  |
| 1. Phloem |  |
| 1. Photoperiodism |  |
| 1. Resting potential |  |
| 1. Schwann cells |  |
| 1. Sensory neuron |  |
| 1. Synapse |  |
| 1. Transpiration |  |
| 1. Xylem |  |
| ***Ecology*** |  |
| 1. Abiotic factor |  |
| 1. Biotic factor |  |
| 1. Carrying capacity |  |
| 1. Decomposer |  |
| 1. Imprinting |  |
| 1. Introduced species |  |
| 1. Nitrogen cycle |  |
| 1. Detritvore |  |
| 1. Ecological Niche |  |
| 1. Ecological succession |  |
| 1. Exponential growth |  |
| 1. Logistic growth |  |
| 1. Mutualism |  |
| 1. Symbiosis |  |