

# Biology EOC Review Punch List 2013

## BIOCHEMISTRY

carbohydrate, lipid, protein, (hemoglobin), insulin, nucleic acid, nucleotide, amino acids, saccharide (sugar), enzyme/catalyst, substrate, monomer, activation energy, know examples found in human body, nucleotide, activation energy

## CELLS

cell, cell/plasma membrane, ribosome, mitochondria, eukaryotic, chloroplast, nucleus, vacuole, homeostasis, diffusion, osmosis, active transport, passive transport, facilitated diffusion, concentration gradient, cell wall, prokaryotic, phospholipid, hydrophobic, hydrophilic

## ENERGETICS

photosynthesis, chlorophyll, cellular respiration/aerobic respiration, metabolism, ATP, anaerobic respiration/fermentation, lactic acid fermentation, pH (acid/base), heterotroph, autotroph,

## REPRODUCTION

mitosis, meiosis, crossing over, cytokinesis, cell cycle chromosome, asexual/sexual reproduction, interphase, cancer, cell cycle (use control of cell cycle concept as example of how proteins regulate/control the body; NOT have to know “cyclin” term), diploid, haploid, homologous, tetrad, chromatid, nondisjunction, fertilization, gamete,

## DNA

DNA, RNA, replication, protein synthesis, transcription, translation, mutation, codon/anticodon, mutation: point, frame shift, mRNA, tRNA, rRNA, how to read RNA codon chart

## GENETICS

allele, gene, genotype, phenotype, trait, hybrid, recessive, dominant, incomplete dominance, codominance, law of segregation + independent assortment, probability, Punnett square, homozygous, heterozygous, test cross, pedigree, karyotype, sex-linked (hemophilia, color blindness), multiple alleles (blood typing), polygenic, Down’s syndrome, PKU, cystic fibrosis, sickle-cell anemia, Huntington’s, carrier

## DNA TECHNOLOGY

genetic engineering, gel electrophoresis, transgenic, plasmid, restriction enzyme, recombinant DNA, human genome, clone

## EVOLUTION

evolution, natural selection (directional, stabilizing, disruptive), cladogram, phylogenetic tree, vestigial, speciation, evolution, adaptive radiation, resistance, geographic isolation, fitness, genetic variation, dichotomous key, classification, binomial nomenclature, taxonomy (KPCOFGS), protist, cilia, flagella,

## ECOLOGY

ecology, biotic/abiotic factors, symbiosis (mutualism, parasitism), predation, carrying capacity (exponential, logistic), food web/chain, trophic level, 10% rule, pyramid, carbon and nitrogen cycle, nitrogen fixation, limiting factor, succession, demographic, organism, population, community, ecosystem, biosphere, habitat, niche, heterotroph/consumer, autotroph/producer,

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herbivore, carnivore, omnivore, scavenger, decomposer, climate change,  
biomagnification/bioaccumulation, greenhouse effect, invasive, sustainability, non-native species