DeSoto County Schools
Biology I
2018-2019 Pacing Guide (Block)
Yearlong/Traditional

Unit	Days	Comp/ Obj	Major topics/concepts
Introduction	3	-	Intro to Course Lab Safety Scientific Method Policies and Procedures
Characteristics of Life	8	1A	Biotic/abiotic Cell theory Levels of organization Evidence for virus- Living/non-living
Macromolecules/ Biochemistry	8	1B	Organic compounds (structure and function) Metabolism Enzymes
Cells	10	1C, 1D	Cells (organelles structure and function) Prokaryotic/eukaryotic Plant/animal/fungi Virus reproduction Cell membrane Active/passive transport osmosis, diffusion, hypo-, hyper-, isotonic
Photosynthesis/ Cellular Respiration	10	2	ATP structure and function Photosynthesis equation (More in-depth) Cellular respiration Anaerobic/aerobic Computer Simulations with real work examples
Cell Growth and Division	10	1E, 3A.1, 3A.2	Cell cycle Cell differentiation, cancer, stem cells Meiosis Compare Mitosis/Meiosis Asexual reproduction Karyotypes Nondisjunction
October 29 - November 2, 2018			**Case 21 Benchmark Window (covering all previously listed material)**
Genetics	15	3A.3, 3B	Chromosomal abnormities Mendel's Laws Punnett Squares Incomplete/codominance Multiple Alleles Sex linked traits Pedigrees

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DNA and RNA	24	3C	DNA/RNA structure Replication Transcription Translation Mutations Types of RNA Cloning Transgenic DNA technology Stem cell research Gel Electrophoresis
Evolution	15	4	Organic Chemical evolution Evidence for evolution Anatomy Fossil record Molecular/biochemical (gene and protein homology) Biogeographic distribution Cladograms/phylogenetic trees Adaptations Genetic variation Natural selection Speciation
February 25 – March 6, 2019			**Case 21 Benchmark Window (covering all previously listed material)**
Ecology	20	5	Levels of organization Cycles of matter Greenhouse gases Food chain, web, pyramid Symbiosis Predation/Prey Cooperation Mimicry Density independent/dependent Logistic/exponential growth Succession

***Aligned to MS CCRS 2018**