DeSoto County Schools
Biology I
2020-2021 Pacing Guide (Block)
Fall Semester

9 Units	Days	Comp/ Obj	Major topics/concepts
Introduction	5	-	Intro to Course Lab Safety Scientific Method Policies and Procedures
Characteristics of Life	5	1A	Biotic/abiotic Cell theory Levels of organization Science Literacy Evidence for virus- Living/non-living
Macromolecules/ Biochemistry	6	1B	Organic compounds (structure and function) Metabolism Enzymes
Cells	12	1C, 1D, 1E	Cells (organelles structure and function) Prokaryotic/eukaryotic Plant/animal/fungi Virus reproduction Cell membrane Active/passive transport osmosis, diffusion, hypo-, hyper-, isotonic Cell cycle Cell differentiation, cancer, stem cells
September 24-October 2, 2019			**Case 21 Benchmark Window (covering all previously listed material)**
Photosynthesis/ Cellular Respiration	10	2	ATP structure and function Photosynthesis equation (More in-depth) Cellular respiration Anaerobic/aerobic Computer Simulations with real work examples
Reproduction and Heredity	15	3A.1, 3A.2, 3A.3, 3B	Meiosis Compare Mitosis/Meiosis Asexual reproduction Karyotypes Nondisjunction Chromosomal abnormities Mendel's Laws Punnett Squares Incomplete/codominance Multiple Alleles Sex linked traits Pedigrees

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DNA and RNA	6	3C	DNA/RNA structure Replication Transcription Translation Mutations Types of RNA Cloning Transgenic DNA technology Stem cell research Gel Electrophoresis
Evolution	6	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
Ecology	10	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**