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2nd Quarter Marking Period			
Units	Next Generation Science Standards	Formative/Summative Assessments (Tests, Quizzes, reflective writing, Journals, Presentations)	Textbook Correlation
3 Weeks - Mitosis, DNA Structure and Replication: : Cell division and growth, cell cycle, mitosis (PMAT) & cytokinesis, asexual reproduction, diploid (2n) cells. Basic structure of DNA (a polymer of nucleotides), base pairing, self replication an...	HS-LS1-1, HS-LS1-4	All common pre-assessment Formative quizzes and enrichment activities Common + teacher specific post assessment.	Chapter 9 Chapter 12 section 1 & 2
3 Weeks-Cellular Energy: Photosynthesis, respiration, energy transformations, ATP and ADP, mitochondria, and chloroplasts.	HS-LS1-5, HS-LS1-7	All common pre-assessment Formative quizzes and enrichment activities Common + teacher specific post assessment.	Chapter 8
2 Weeks - Protein Synthesis: Transcription and translation, types of RNA, and the importance of protein to cell organization.	HS-LS1-1, HS-LS1-2, HS-LS1-6	All common pre-assessment Formative quizzes and enrichment activities Common + teacher specific post assessment.	Chapter 12 section 3 & 4

	3rd Quarter Marking Period			
	Units	Next Generation Science Standards	Formative/Summative Assessments (Tests, Quizzes, reflective writing, Journals, Presentations)	Textbook Correlation
	2 Weeks -Meiosis: sexual reproduction, haploid cells, alleles, chromosomes, and basics of inheritance.	HS-LS1-4, HS-LS3-1, HS-LS3-2, HS-LS3-3	All common pre-assessment Formative quizzes and enrichment activities Common + teacher specific post assessment.	Chapter 10 section 1 Selected portions of Chapter 10 section 2
	4 Weeks- Mendelian Genetics, Complex Genetics and Human Inheritance: Simple rules of inheritance, tools used to analyze simple inheritance, gene dominance, genotypes, phenotype, and probabilities. Polygenic traits, multiple alleles, co dominance...	HS-LS3-1, HS-LS3-2, HS-LS3-3	All common pre-assessment Formative quizzes and enrichment activities Common + teacher specific post assessment.	Chapter 10 section 2 & 3 Chapter 11
	2 Weeks- Biotechnology: Gene therapy, cloning, recombinant DNA, human genome project, bioethics, genetically modified organisms, bio fuels.	HS-LS3-1, HS-LS3-2, HS-LS3-3	All common pre-assessment Formative quizzes and enrichment activities Common + teacher specific post assessment.	Chapter 13

4th Quarter Marking Period				
Units	Next Generation Science Standards	Formative/Summative Assessments (Tests, Quizzes, reflective writing, Journals, Presentations)	Textbook Correlation	
3 Weeks- Microevolution: Microevolution, allele frequency, fitness, natural selection, mutation, genetic drift, gene flow, and mechanisms of speciation. Note: This unit will likely begin in the last week of the 3 quarter and continue into the ...	HS-LS4-1, HS-LS4-2, HS-LS4-3, HS-LS4-4, HS-LS4-5, HS-LS2-8	All common pre-assessment Formative quizzes and enrichment activities Common + teacher specific post assessment.	Chapter 15	
3 Weeks- Macroevolution: Macroevolution, fossil record, history of life on earth, mechanisms of speciation and genetic change, comparative anatomy and molecular data between current living species and the fossil record.	HS-LS4-1, HS-LS4-2, HS-LS4-3, HS-LS4-4, HS-LS4-5	All common pre-assessment Formative quizzes and enrichment activities Common + teacher specific post assessment.	Chapter 14	

	3 Weeks- Introduction to Ecology, Population Ecology and Human Impact: Energy and matter transfer between trophic levels, food chains, food webs, complex interdependent relationships in ecosystems. Population growth, limits to population growth, ...	HS-LS4-6, HS-LS2-1, HS-LS2-2, HS-LS2-3, HS-LS2-4, HS-LS2-5, HS-LS2-6, HS-LS2-7, HS-LS2-8	All common pre-assessment Formative quizzes and enrichment activities Common + teacher specific post assessment.	Chapter 2 Chapter 3 Chapter 4 Chapter 5
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