



**Millington Central
Middle High School**

**Biology PACING GUIDE
9th & 10th Grade**

FIRST QUARTER		
SAVVAS Lesson(s)	Pacing	Topics
Chapter 1.3 Chapter 8.1-Microscopes A.1-A.7 Lab Info/Safety	1.5 weeks	<ul style="list-style-type: none">• Patterns of Life• Explain how microscopes work• Lab Handbook- learning to make a wet-mount slide
Chapter 2 Chemistry of Life Lessons 1-4	2.5 weeks	<ul style="list-style-type: none">• Nature of Matter• Properties of Water• Carbon Compounds• Chemical Reactions & Enzymes
Chapter 8 Cell Structure & Function Lessons 1-4	2.5 weeks	<ul style="list-style-type: none">• Life is Cellular• Cell Structure• Cell Transport• Homeostasis & Cells
Chapter 11 Cell Growth & Division Lessons 1-4	2.5 weeks	<ul style="list-style-type: none">• Cell Growth, Division & Reproduction• The Process of Cell Division• Regulating the Cell Cycle• Cell Differentiation



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SECOND QUARTER		
SAVVAS Lesson(s)	Pacing	Topics
Chapter 9 Photosynthesis Lessons 1-3	2.5 weeks	<ul style="list-style-type: none">• Energy & Life• Photosynthesis: An Overview• The Process of Photosynthesis
Chapter 10 Cellular Respiration Lessons 1-3	2.5 weeks	<ul style="list-style-type: none">• Cellular Respiration: An Overview• The Process of Cellular Respiration• Fermentation
Chapter 12 Introduction of Genetics Lessons 1-4	3 weeks	<ul style="list-style-type: none">• The Work of Gregor Mendel• Applying Mendel's Principles• Other Patterns of Inheritance• Meiosis
Review & Exams	1 week	Q1 & Q2 material



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THIRD QUARTER		
SAVVAS Lesson(s)	Pacing	Topics
Chapter 13 DNA Lessons 1-3	2.5 weeks	<ul style="list-style-type: none">Identifying the Substances of GenesStructure of DNADNA Replication
Chapter 14 RNA & Protein Synthesis Lessons 1-4	2.5 weeks	<ul style="list-style-type: none">RNARibosomes & Protein SynthesisGene Regulation & ExpressionMutations
Chapter 15 Human Genome Lessons 1-3 Honors- Ch 16 Biotechnology	2.5 weeks	<ul style="list-style-type: none">Human ChromosomesHuman Genetic DisordersStudying the Human GenomeGenetic EngineeringApplications, Ethics & Impacts of Biotechnology
Chapter 4- Ecology Lesson 1-3 Chapter 5- Populations Lessons 1-3	1.5 weeks	<ul style="list-style-type: none">Energy, Producers & ConsumersEnergy Flow in EcosystemsCycles of MatterHow Populations GrowLimits to GrowthHuman population Growth
Chapter 6 Communities and Ecosystem Dynamics	1 week	<ul style="list-style-type: none">Habitats, Niches Species InteractionsSuccessionBiodiversity, Ecosystems & Resilience



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FOURTH QUARTER		
SAVVAS Lesson(s)	Pacing	Topics
Chapter 19 Biodiversity & Classification Lessons 1-2	1.5 weeks	<ul style="list-style-type: none">• Finding Order in Biodiversity• Modern Evolutionary Classification
Review & Testing	1.5 week	End of Course Review
Chapter 17 Darwin's Theory of Evolution Lessons 1-4	2.5 weeks	<ul style="list-style-type: none">• Voyage of Discovery• Ideas That Influenced Darwin• Darwin's Theory: Natural Selection• Evidence of Evolution
Chapter 18 Evolution of Populations Lessons 1-4	2.5 weeks	<ul style="list-style-type: none">• Genes & Variation• Evolution as Genetic Change• Process of Speciation• Molecular Evolution