

	Sem 1: Aug/Sept Sem 2: Jan/Feb	Sem 1: Sept/Oct Sem 2: Feb/Mar	Sem 1: Oct/Nov Sem 2: Mar/Apr	Sem 1: Nov/Dec Sem 2: Apr/May
	Unit 1 Ecology	Unit 2 Cells	Unit 3 Genetics	Unit 4 Evolution
Standards	<p>Ohio Standards:</p> <p>B.DI.1: Biodiversity</p> <ul style="list-style-type: none">Genetic diversitySpecies diversity <p>B.DI.2: Ecosystems</p> <ul style="list-style-type: none">Equilibrium and disequilibriumCarrying capacity <p>B.DI.3: Loss of Diversity</p> <ul style="list-style-type: none">Climate changeAnthropocene effectsExtinctionInvasive species	<p>Ohio Standards:</p> <p>B.C.1: Cell Structure and Function</p> <ul style="list-style-type: none">Structure, function and interrelatedness of cell organellesEukaryotic cells and prokaryotic cells <p>B.C.2: Cellular Processes</p> <ul style="list-style-type: none">Characteristics of life regulated by cellular processesPhotosynthesis, chemosynthesis, cellular respiration, biosynthesis of macromolecules	<p>Ohio Standards:</p> <p>B.H.1: Cellular Genetics</p> <p>B.H.2: Structure and Function of DNA in Cells</p> <p>B.H.3: Genetic Mechanisms and Inheritance</p> <p>B.H.4: Mutations</p> <p>B.H.5: Modern Genetics</p>	<p>Ohio Standards:</p> <p>B.E.1: Mechanisms</p> <ul style="list-style-type: none">Natural selectionMutationGenetic driftGene flow (immigration, emigration)Sexual selection <p>B.E.2: Speciation</p> <ul style="list-style-type: none">Biological classification expanded to molecular evidenceVariation of organisms
Topics	<p>Chapter 1: Introduction to Biology</p> <ul style="list-style-type: none">1.1: The Study of Life1.2: Constructing Explanations about the Natural World1.3: Using Biology to Develop Solutions <p>Chapter 2: Energy & Matter in Ecosystems (B.DI. 2)</p> <ul style="list-style-type: none">2.1: Ecological Systems2.2: Transfer of Energy & Matter2.3: Energy & Matter Distribution2.4: Cycling of Matter <p>Chapter 3: Biodiversity & Ecosystem Stability (B.DI. 1, B.DI. 2)</p> <ul style="list-style-type: none">3.1: Ecological Relationships3.2: Biodiversity3.3: Ecosystem Stability & Change <p>Chapter 4: Population Measurement & Growth (B.DI.2, B.DI.3)</p> <ul style="list-style-type: none">4.1: Measuring Populations4.2: Modeling Population Growth Patterns4.3: Factors that Limit Population Growth	<p>Chapter 5: Molecules in Living Systems (B.C.2)</p> <ul style="list-style-type: none">5.3: Carbon-Based Molecules5.4: Chemical Reactions <p>Chapter 6: Cell Structure & Function (B.C.1, B.C.2)</p> <ul style="list-style-type: none">6.1: Cell Structures6.2: Cell Membranes6.3: Photosynthesis & Cellular Respiration	<p>Chapter 11: DNA, RNA & Proteins (B.H.1, B.H.2, B.H.3)</p> <ul style="list-style-type: none">11.1: Structure & Information11.2: Replication, Transcription & Translation <p>Chapter 12: Genetic Variation & Heredity (B.H.1, B.H.3, B.H.4)</p> <ul style="list-style-type: none">12.1: Meiosis12.2: Mutations12.3: Mendelian Inheritance12.4: Other Patterns of Inheritance <p>Chapter 13: Genetic Technologies (B.H.5)</p> <ul style="list-style-type: none">13.1: Tools in Genetic Technology13.2: Applications in Genetic Engineering	<p>Chapter 14: Evidence for Evolution (B.E.1, B.E.2)</p> <ul style="list-style-type: none">14.1: Evolution of Life14.2: Fossils & Geological Evidence14.3: Developmental, Anatomical & Genetic Evidence <p>Chapter 15: The Theory of Evolution (B.E.1, B.E.2)</p> <ul style="list-style-type: none">15.1: Theory of Evolution by Natural Selection15.2: Evolution in Populations15.3: Other Patterns in Population Genetics <p>Chapter 16: Survival in Changing Environments (B.E.2)</p> <ul style="list-style-type: none">16.1: Speciation16.2: Extinction16.3: Human Impacts on the Environment
Assessments	Mini Labs (AA) Chapter 2 & 3 Quizzes (AA) Unit 1: Ecology Test (AA)	Mini Labs (AA) Chapter 5 Quiz (AA) Unit 2: Cells Test (AA)	Mini Labs (AA) Chapter 11 & 12 Quizzes (AA) Unit 3: Genetics Test (AA)	Mini Labs (AA) Chapter 14 & 15 Quizzes (AA) Unit 4: Evolution Test (AA)