

BIOLOGY

Curriculum Guide

Tennessee's K-12 science standards are intended to guide the development and delivery of educational experience that prepare all students for the challenges of the 21st Century. You may access these documents using the **Best for All Central** website:
<https://bestforall.tnedu.gov/lessons-and-learning-item?content-id=9109>

1 st Quarter					
Standard(s)	Learning Objective(s)	PBL/CCC/SEP	Savvas Alignment	Assessments	Pacing
LS4.1	<ul style="list-style-type: none"> Identify characteristics of all living things Describe crosscutting concepts of biology Explain how fields of biology differ in their approaches 	PBL: Design and build a solar still CCC: Patterns SEP: Construct explanations	Chapter 1 Lesson 3 p. 18-25	Lesson 1.3 Quiz	1 day
LS1.1 LS1.5	<ul style="list-style-type: none"> Identify the elements that carbon bonds with to make up life's molecules Explain the functions of each of the four groups of macromolecules 	PBL: Design and build a solar still CCC: Patterns SEP: Develop models, analyze and interpret data	Chapter 2 Lesson 3 p.44-49	Lesson 2.3 Quiz	2 days
LS1.5	<ul style="list-style-type: none"> Explain what happens to chemical bonds during chemical reactions Investigate how energy changes affect whether a chemical reaction will occur Explain the role enzymes play in living things and what affects their function 	PBL: Design and build a solar still CCC: Cause and effect SEP: Construct explanations, plan and carry out investigations	Chapter 2 Lesson 4 p. 50-53	Lesson 2.4 Quiz	2 days
LS4.1 LS1.1 LS1.5			UNIT ONE TEST	Chapter 1 Assessment Chapter 2 Assessment	1-2 days
LS2.3 LS2.4	<ul style="list-style-type: none"> Explain why ecology is important Describe the methods used to study ecology 	PBL: Invasives in Your Neighborhood	Chapter 3 Lesson 1 p. 62-68	Lesson 3.1 Quiz	1 day

	<ul style="list-style-type: none"> Explain how biotic and abiotic factors influence an ecosystem Explain how we can understand global systems and the changes they undergo 	CCC: System and system models SEP: Write arguments from evidents, guided inquiry			
LS2.3 LS2.4	<ul style="list-style-type: none"> Explain how weather and climate differ Describe how Earth's climate and average temperature are determined Explain the causes of ocean currents Identify the factors that shape regional climates Explain the processes involved in climate change 	PBL: Invasives in Your Neighborhood CCC: System and system models, cause and effect SEP: Ask questions, guided inquiry, use models, cite evidence	Chapter 3 Lesson 2 p. 69-75	Lesson 3.2 Quiz	1 day
LS2.1 LS2.3	<ul style="list-style-type: none"> Identify how biomes are defined Identify how aquatic systems are defined Describe the major categories of freshwater ecosystems Explain how estuaries contribute to ecotystems 	PBL: Invasives in Your Neighborhood CCC: System and system models SEP: Analyze and interpret data, construct explanations, cite evidence	Chapter 3 Lesson 3 p. 76-85	Lesson 3.3 Quiz	2 days
LS2.1 LS2.3 LS2.4			Chapter 3 Review p. 86-91	Chapter 3 Assessment	2-3 days
LS2.2	<ul style="list-style-type: none"> Define primary producers Describe how consumers obtain energy and nutrients 	PBL: Invasives in Your Neighborhood CCC: System and system models SEP: Obtain and communicate information	Chapter 4 Lesson 1 p. 94-97	Lesson 4.1 Quiz	1 day
LS2.2	<ul style="list-style-type: none"> Explain how energy flows through ecosystems Explain how ecological pyramids help analyze energy flow through throphic levels 	PBL: Invasives in Your Neighborhood CCC: Stability and change, systems and system models SEP: Develop models, analyze and interpret data	Chapter 4 Lesson 2 p.98-102	Lesson 4.2 Quiz	1 day
LS2.2	<ul style="list-style-type: none"> Explain how matter flows between trophic levels and among ecosystems Explain how water cycles globally Identify the importance of the main nutrient cycles Explain how nutrient availability affects primary productivity 	PBL: Invasives in Your Neighborhood CCC: Systems and system models, energy and matter SEP: Argue from evidence, develop models, analyze and interpret data	Chapter 4 Lesson 3 p. 103-113	Lesson 4.3 Quiz	1-2 days

LS2.2			Chapter 4 Review p. 114-119	Chapter 4 Assessment	2-3 days
LS2.1	<ul style="list-style-type: none"> Explain the ways ecologists study populations Identify the factors that affect populations Explain what happens during exponential population growth Explain what happens during logistic growth 	PBL: Invasives in Your Neighborhood CCC: Cause and effect, stability and change SEP: Construct explanations, planning and carrying out investigations	Chapter 5 Lesson 1 p. 122-129	Lesson 5.1 Quiz	1 day
LS2.1	<ul style="list-style-type: none"> Identify factors affecting carrying capacity Identify limiting factors that depend on the population density Identify limiting factors that do not depend on the population density Explain the relationship between limiting factors and population extinction 	PBL: Invasives in Your Neighborhood CCC: Cause and effect, stability and change SEP: Develop models, analyze and interpret data	Chapter 5 Lesson 2 p. 130-135	Lesson 5.2 Quiz	1 day
LS2.1	<ul style="list-style-type: none"> Describe the change of human population size over time Explain why population growth rates differ between countries Describe how the environment affects changes in the human population 	PBL: Invasives in Your Neighborhood CCC: Cause and effect, stability and change SEP: Argue from evidence, construct explanations, develop models	Chapter 5 Lesson 3 p. 136-143	Lesson 5.3 Quiz	1 day
LS2.1			Chapter 5 Review p. 144-149	Chapter 5 Assessment	2-3 days
LS2.3	<ul style="list-style-type: none"> Explain how communities change over time Explain how communities recover after a disturbance 	PBL: Invasives in Your Neighborhood CCC: Cause and effect, stability and change SEP: Develop models, plan and carry out investigations, argue from evidence	Chapter 6 Lesson 2 p. 160-163	Lesson 6.2 Quiz	1 day
LS2.3 LS2.4	<ul style="list-style-type: none"> Identify the types of biodiversity Identify the benefits of biodiversity Identify some important ecosystem services 	PBL: Invasives in Your Neighborhood CCC: Cause and effect, stability and change SEP: Argue from evidence, plan and carry out investigations	Chapter 6 Lesson 3 p. 164-169	Lesson 6.3 Quiz	1 day

LS2.3 LS2.4			Chapter 6 Review p. 170-175	Chapter 6 Assssment	2-3 days
LS2.1-4			UNIT TWO TEST	Chapters 3-7 Assessments	1-2 days
LS1.4 LS1.6	<ul style="list-style-type: none"> Explain the main points of the cell theory Explain how microscopes work Compare prokaryotic and eukaryotic cells 	PBL: Will Green Algae Fuel the Future? CCC: Scale, proportion, and quantity, structure and function SEP: Plan and carry out investigations, construct explanations and design solutions	Chapter 8 Lesson 1 p. 214-219	Lesson 8.1 Quiz	1 day
LS1.4 LS1.6	<ul style="list-style-type: none"> Explain the role of the cell nucleus Identify the cellular structures that make and transport proteins and other macromolecules Distinguish the functions of vacuoles, lysosomes, and the cytoskeleton Compare roles of chloroplasts and mitochondria Describe the role of the cell membrane 	PBL: Will Green Algae Fuel the Future? CCC: Scale, proportion, and quantity, structure and function SEP: Argue from evidence, analyze and interpret data	Chapter 8 Lesson 2 p. 220-229	Lesson 8.2 Quiz	2-3 days
LS1.2	<ul style="list-style-type: none"> Explain how passive transport works Explain how active transport works 	PBL: Will Green Algae Fuel the Future? CCC: Structure and function SEP: Plan and carry out investigations	Chapter 8 Lesson 3 p. 232-237	Lesson 8.3 Quiz	2 days
LS1.2	<ul style="list-style-type: none"> Explain how unicellular organisms maintain homeostasis Describe how cels of a multicellular organism work together to maintain homeostasis 	PBL: Will Green Algae Fuel the Future? CCC: Structure and function SEP: Construct explanations, develop models, analyze and interpret data	Chapter 8 Lesson 4 p. 238-241	Lesson 8.4 Quiz	1 day
LS1.2 LS1.4 LS1.6			Chapter 8 Review p. 242-247	Chapter 8 Assessment	2-3 days
LS1.4 LS1.5	<ul style="list-style-type: none"> Describe why ATP is useful to cells 	PBL: Will Green Algae Fuel the Future?	Chapter 9 Lesson 1 p. 250-253	Lesson 9.1 Quiz	1 day

	<ul style="list-style-type: none"> Describe what happens during the process of photosynthesis 	CCC: Structure and function, systems and system models SEP: Plan and carry out investigations, analyze and interpret data			
LS1.4 LS1.5	<ul style="list-style-type: none"> Explain the role of pigments in the process of photosynthesis Describe the role of electron-carrier molecules Identify the reactants and products of photosynthesis 	PBL: Will Green Algae Fuel the Future? CCC: Structure and function, systems and system models SEP: Argue from evidence, plan and carry out investigations	Chapter 9 Lesson 2 p. 254-258	Lesson 9.2 Quiz	2 days
LS1.4	<ul style="list-style-type: none"> Explain what happens during the light-dependent reactions Explain what happens during the light-independent reactions Identify the factors that affect photosynthesis 	PBL: Will Green Algae Fuel the Future? CCC: Systems and system models, structure and function SEP: Aruge using evidence, analyze and interpret data, develop models	Chapter 9 Lesson 3 p. 259-265	Lesson 9.3 Quiz	1-2 days
LS1.4 LS1.5			Chapter 9 Review p. 266-271	Chapter 9 Assessment	2-3 days

2nd Quarter

Standard(s)	Learning Objective(s)	PBL/CCC/SEP	Savvas Alignment	Assessments	Timeframe
LS1.5 LS1.6	<ul style="list-style-type: none"> Identify how organisms get energy Explain how cellular respiration works Explain the relationship between photosynthesis and cellular respiration 	PBL: Will Green Algae Fuel the Future? CCC: Systems and system models, structure and function SEP: Analyze and interpret data	Chapter 10 Lesson 1 p. 274-277	Lesson 10.1 Quiz	2-3 days
LS1.5 LS1.6	<ul style="list-style-type: none"> Identify what happens during glycolysis Identify what happens during the Krebs cycle Explain how the electron transport chain uses high-energy electrons from glycolysis and the Krebs cycle 	PBL: Will Green Algae Fuel the Future? CCC: Systems and system models, structure and function	Chapter 10 Lesson 2 p. 278-284	Lesson 10.2 Quiz	3 days

	<ul style="list-style-type: none"> Calculate how much ATP cellular respiration generates 	SEP: Argue from evidence, construct explanations, ask questions, plan and carry out investigations			
LS1.6	<ul style="list-style-type: none"> Explain how organisms get energy in the absence of oxygen Identify the pathways the body uses to produce ATP during exercise 	PBL: Will Green Algae Fuel the Future? CCC: Systems and system models, structure and function, cause and effect SEP: Plan and carry out investigations	Chapter 10 Lesson 3 p. 285-289	Lesson 10.3 Quiz	1-2 days
LS1.5 LS1.6			Chapter 10 Review p. 290-295	Chapter 10 Assessment	3-4 days
LS3.1	<ul style="list-style-type: none"> Describe some of the difficulties a cell faces as it increases in size Compare and contrast asexual and sexual reproduction 	PBL: Will Green Algae Fuel the Future? CCC: Scale, proportion, and quantity, cause and effect, structure and function SEP: Construct explanations, develop models, obtain and communicate information	Chapter 11 Lesson 1 p. 298-302	Lesson 11.1 Quiz	1-2 days
LS3.1	<ul style="list-style-type: none"> Explain the role of chromosomes during cell division Describe the main events of the cell cycle Describe what happens during the phases of mitosis Investigate how daughter cells split apart after mitosis 	PBL: Will Green Algae Fuel the Future? CCC: Scale, proportion, and quantity, cause and effect, structure and function SEP: Develop models, plan and carry out investigations	Chapter 11 Lesson 2 p. 303-308	Lesson 11.2 Quiz	2 days
LS3.1	<ul style="list-style-type: none"> Investigate how the cell cycle is regulated Compare cancer cells with other cells 	PBL: Will Green Algae Fuel the Future? CCC: Scale, proportion, and quantity, cause and effect, structure and function SEP: Construct explanations, analyze and interpret data	Chapter 11 Lesson 3 p. 310-314	Lesson 11.3 Quiz	1 day

LS3.1	<ul style="list-style-type: none"> Investigate how cells become specialized for different functions Explain what stem cells are Evaluate some possible benefits and issues associated with stem cell research 	PBL: Will Green Algae Fuel the Future? CCC: cause and effect, structure and function SEP: Develop models, plan and carry out investigations, argue from evidence	Chapter 11 Lesson 4 p. 315-321	Lesson 11.4 Quiz	2 days
LS3.1 LS1.3			Chapter 11 Review p. 322-327	Chapter 11 Assessment	2-3 days
LS1.2-6 LS3.1			UNIT THREE TEST	Chapters 8-11 Assessments	1-2 days
LS3.3	<ul style="list-style-type: none"> Explain from where an organism gets its unique characteristics Explain how different forms of a gene are distributed to offspring 	PBL: Battling Blights with Disease Resistant Genes CCC: Patterns, cause and effect SEP: Argue from evidence, plan and carry out investigations, construct explanations	Chapter 12 Lesson 1 p. 330-334	Lesson 12.1 Quiz	1 day
LS3.3	<ul style="list-style-type: none"> Explain how probability can be used to predict inherited traits Explain how alleles segregate when more than one gene is involved Identify Mendel's contributions to our understanding of genetics 	PBL: Battling Blights with Disease Resistant Genes CCC: Patterns, cause and effect SEP: Construct explanations, develop models, ask questions, argue from evidence	Chapter 12 Lesson 2 p. 335-340	Lesson 12.2 Quiz	1-2 days
LS3.3	<ul style="list-style-type: none"> Describe some of the exceptions to Mendel's principles Explain the environment's role in the way genes determine traits 	PBL: Battling Blights with Disease Resistant Genes CCC: Patterns, cause and effect SEP: Cite evidence, analyze and interpret data	Chapter 12 Lesson 3 p. 341-344	Lesson 12.3 Quiz	1 day
LS3.1 LS3.2 LS3.4	<ul style="list-style-type: none"> Identify how many sets of genes are found in most adult organisms Describe the events that occur during each phase of meiosis Identify the difference between meiosis and mitosis 	PBL: Battling Blights with Disease Resistant Genes CCC: Patterns, cause and effect SEP: Develop models, construct explanations,	Chapter 12 Lesson 4 p. 345-351	Lesson 12.4 Quiz	1-2 days

	<ul style="list-style-type: none"> Explain how two alleles from different genes can be inherited together 	argue from evidence, analyze and interpret data			
LS3.1-4			Chapter 12 Review p. 352-257	Chapter 12 Assessment	2-3 days
LS1.1	<ul style="list-style-type: none"> Identify the chemical components of DNA Describe the clues that helped scientists determine the structure of DNA Explain what the double helix model shows about DNA 	PBL: Battling Blights with Disease Resistant Genes CCC: Structure and function SEP: Use models, analyze and interpret data, argue from evidence	Chapter 13 Lesson 2 p. 366-371	Lesson 13.2 Quiz	2 days
LS1.1	<ul style="list-style-type: none"> Explain the role of DNA polymerase in copying DNA Compare DNA replication in prokaryotic cells and in eukaryotic cells 	PBL: Battling Blights with Disease Resistant Genes CCC: Structure and function SEP: Construct explanations, plan and carry out investigations, analyze and interpret data	Chapter 13 Lesson 3 p. 372-375	Lesson 13.3 Quiz	2-3 days
LS1.1			Chapter 13 Review	Chapter 13 Assessment	2-3 days
LS1.1	<ul style="list-style-type: none"> Describe how RNA differs from DNA Explain how the cell makes RNA 	PBL: Battling Blights with Disease Resistant Genes CCC: Structure and function SEP: Use models, plan and carry out investigations	Chapter 14 Lesson 1 p. 384-388	Lesson 14.1 Quiz	1-2 days
LS1.1	<ul style="list-style-type: none"> Explain how the genetic code works Describe the role of the ribosome in assembling proteins Understand how molecular biology relates to genetics 	PBL: Battling Blights with Disease Resistant Genes CCC: Structure and function SEP: Analyze and interpret data, use models	Chapter 14 Lesson 2 p. 389-394	Lesson 14.2 Quiz	1-2 days
3rd Quarter					
Standard(s)	Learning Objective(s)	PBL/CCC/SEP	Savvas Alignment	Assessments	Timeframe
LS1.1 LS3.3	<ul style="list-style-type: none"> Explain how prokaryotic genes are regulated Describe how genes are regulated in eukaryotic cells 	PBL: Battling Blights with Disease Resistant Genes	Chapter 14 Lesson 3 p. 395-400	Lesson 14.3 Quiz	1 day

	<ul style="list-style-type: none"> Identify what controls the development of cells and tissues in multicellular organisms 	CCC: Structure and function, cause and effect SEP: Argue from evidence, use models			
LS3.4	<ul style="list-style-type: none"> Describe how mutations change genetic information Explain how mutations affect genes 	PBL: Battling Blights with Disease Resistant Genes CCC: Structure and function, cause and effect SEP: Use models, plan and carry out investigations, argue from evidence	Chapter 14 Lesson 4 p. 401-405	Lesson 14.4 Quiz	1-2 days
LS1.1 LS3.3 LS3.4			Chapter 14 Review p.406-411	Chapter 14 Assessment	2-3 days
LS3.3	<ul style="list-style-type: none"> Describe how human karyotypes are used Explain the patterns of inheritance that human traits follow Identify how pedigrees can be used to analyze human inheritance 	PBL: Battling Blights with Disease Resistant Genes CCC: Patterns SEP: Use models, plan and carry out investigations	Chapter 15 Lesson 1 p. 414-419	Lesson 15.1 Quiz	1 day
LS3.3 LS3.4	<ul style="list-style-type: none"> Explain the effects of errors in meiosis Describe how small changes in DNA affect human traits 	PBL: Battling Blights with Disease Resistant Genes CCC: Patterns, cause and effect SEP: Analyze and interpret data, construct explanations	Chapter 15 Lesson 2 p. 420-424	Lesson 15.2 Quiz	1 day
LS3.3 LS3.4	<ul style="list-style-type: none"> Explain how scientists read DNA base sequences Describe the size of the human genome 	PBL: Battling Blights with Disease Resistant Genes CCC: Patterns SEP: Develop models, plan and carry out investigations, design solutions	Chapter 15 Lesson 3 p. 425-433	Lesson 15.3 Quiz	1-2 days
LS3.3 LS3.4			Chapter 15 Review p. 434-439	Chapter 15 Assessment	2-3 days
LS3.4	<ul style="list-style-type: none"> Explain the uses of selective breeding Explain how people increase genetic variation 	PBL: Battling Blights with Disease Resistant Genes CCC: Cause and effect SEP: Construct explanations	Chapter 16 Lesson 1 p. 442-444	Lesson 16.1 Quiz	1 day

LS3.4	<ul style="list-style-type: none"> Explain how scientists copy the DNA of living organisms Explain how recombinant DNA is used Describe how transgenic organisms are produced 	PBL: Battling Blights with Disease Resistant Genes CCC: Cause and effect SEP: Use models, guided inquiry, write arguments, construct explanations	Chapter 16 Lesson 2 p. 445-451	Lesson 16.2 Quiz	2 days
LS3.4	<ul style="list-style-type: none"> Explain how genetic engineering can benefit agriculture and industry Explain how biotechnology can improve human health Explain how DNA is used to identify individuals 	PBL: Battling Blights with Disease Resistant Genes CCC: Cause and effect SEP: Design solutions, develop models, construct explanations, guided inquiry	Chapter 16 Lesson 3 p. 452-459	Lesson 16.3 Quiz	2 days
LS3.4	<ul style="list-style-type: none"> Explain what privacy issues biotechnology raises Describe some of the pros and cons of transgenic organisms Explain what some of the ethical issues are around new biotechnology 	PBL: Battling Blights with Disease Resistant Genes CCC: Cause and effect SEP: Write arguments, analyzing data,	Chapter 16 Lesson 4 p. 460-463	Lesson 16.4 Quiz	1-2 days
LS3.4			Chapter 16 Review p. 464-469	Chapter 16 Assessment	2-3 days
LS1.1 LS3.1-4			UNIT FOUR TEST	Chapters 12-16 Assessments	1-2 days
LS4.3	<ul style="list-style-type: none"> Identify Charles Darwin's contribution to science Describe the three patterns of biodiversity noted by Darwin 	PBL: Fossilized Evidence of How Life Evolves CCC: Patterns SEP: Analyze and interpret data, construct explanations	Chapter 17 Lesson 1 p. 472-476	Lesson 17.1 Quiz	1 day
LS4.3	<ul style="list-style-type: none"> Identify the conclusions drawn by Hutton and Lyell about Earth's history Describe Lamarck's hypothesis of evolution Describe Malthus's view of population growth Explain the role of inherited variation in artificial selection 	PBL: Fossilized Evidence of How Life Evolves CCC: Patterns SEP: Use models, argue using evidence, plan and carry out investigations	Chapter 17 Lesson 2 p. 477-482	Lesson 17.2 Quiz	1-2 days
LS4.2 LS4.3 LS4.4	<ul style="list-style-type: none"> Describe the conditions for natural selection Explain what evolutionary theory suggests about the unity and diversity of life 	PBL: Fossilized Evidence of How Life Evolves CCC: Patterns, cause and effect SEP: Argue from evidence, Ask questions, Use models	Chapter 17 Lesson 3 p. 483-487	Lesson 17.3 Quiz	1 day

LS4.1 LS4.2	<ul style="list-style-type: none"> Describe how the geographic distribution of species today relates to their evolutionary history Identify how fossils help document the descent of modern species Explain what homologous structures and similarities in development suggest about the process of evolutionary change Describe how molecular biology can be used to trace the process of evolution Explain what recent research of the Galapagos finches show about natural selection 	PBL: Fossilized Evidence of How Life Evolves CCC: Patterns, cause and effect SEP: Use models, develop claims, construct explanations, plan and carry out investigations	Chapter 17 Lesson 4 p. 488-495	Lesson 17.4 Quiz	1-2 days
LS4.1-4			Chapter 17 Review p. 496-501	Chapter 17 Assessment	2-3 days
LS3.2 LS3.4 LS4.2	<ul style="list-style-type: none"> Define evolution in genetic terms Identify the sources of genetic variation Explain what determines the phenotypes for a given trait 	PBL: Fossilized Evidence of How Life Evolves CCC: Patterns, cause and effect SEP: Develop models	Chapter 18 Lesson 1 p. 504-508	Lesson 18.1 Quiz	1 day
LS4.2	<ul style="list-style-type: none"> Explain how natural selection affects single-gene and polygenic traits Define genetic drift Describe the conditions required to maintain genetic equilibrium 	PBL: Fossilized Evidence of How Life Evolves CCC: Patterns, cause and effect SEP: Ask questions, plan and carry out investigations, construct explanations, analyze and interpret data	Chapter 18 Lesson 2 p. 509-515	Lesson 18.2 Quiz	1 day
LS4.4 LS4.5	<ul style="list-style-type: none"> Describe the types of isolation that lead to the formation of new species Explain a current hypothesis about the speciation of the Galapagos finches 	PBL: Fossilized Evidence of How Life Evolves CCC: Patterns, cause and effect SEP: Plan and carry out investigations	Chapter 18 Lesson 3 p. 516-519	Lesson 18.3 Quiz	1 day
LS4.1	<ul style="list-style-type: none"> Identify where new genes come from Describe how Hox genes might be involved in evolutionary change Explain how molecular clocks work 	PBL: Fossilized Evidence of How Life Evolves CCC: Patterns, structure and function SEP: Construct explanations,	Chapter 18 Lesson 4 p. 520-523	Lesson 18.4 Quiz	1 day

LS3.2 LS3.4 LS4.1 LS4.2 LS4.4 LS4.5			Chapter 18 Review p. 524-529	Chapter 18 Assessment	2-3 days
--	--	--	---------------------------------	--------------------------	----------

4th Quarter

Standard(s)	Learning Objective(s)	PBL/CCC/SEP	Savvas Alignment	Assessments	Timeframe
LS4.1	<ul style="list-style-type: none"> Explain how viruses reproduce Describe what happens after a virus infects a cell Explain how viruses cause disease Clarify whether a virus is a living thing 	PBL: Recovery Plans for Endangered Species CCC: Patterns, structure and function SEP: Argue from evidence, plan and carry out investigations, construct explanations	Chapter 21 Lesson 1 p. 600-606	Lesson 21.1 Quiz	1 day
LS4.1	<ul style="list-style-type: none"> Explain how prokaryotes are classified Describe how prokaryotes vary in their structures and function Depict the roles of prokaryotes in the living world Describe how bacteria cause disease Define emerging diseases 	PBL: Recovery Plans for Endangered Species CCC: Structure and function SEP: Construct explanations, develop claims, argue from evidence	Chapter 21 Lesson 2 p. 607-615	Lesson 21.2 Quiz	1 day
LS4.1	<ul style="list-style-type: none"> Explain how protists are classified Describe how protists move and reproduce Explain the roles that protists play in the environment 	PBL: Recovery Plans for Endangered Species CCC: Structure and function SEP: Develop claims, develop models, construct explanations	Chapter 21 Lesson 3 p. 616-621	Lesson 21.3 Quiz	1 day
LS4.1	<ul style="list-style-type: none"> Identify basic characteristics of fungi Describe how fungi affect homeostasis in other organisms and the environment 	PBL: Recovery Plans for Endangered Species CCC: Structure and function, patterns SEP: Argue from evidence, develop models, design solutions	Chapter 21 Lesson 4 p. 622-627	Lesson 21.4 Quiz	1 day

LS4.1			Chapter 21 Review	Chapter 21 Assessment	2-3 days
LS3.2 LS3.4 LS4.1-5			UNIT FIVE TEST	Chapters 17-21 Assessments	1-2 days
LS4.1 LS1.1 LS1.5	(See Learning Objectives from Unit One)		UNIT ONE REVISIT	Chapter 1 End of Course Assessment Chapter 2 End of Course Assessment	1-2 days
LS2.1-4	(See Learning Objectives from Unit Two)		UNIT TWO REVISIT	Chapters 3-7 End of Course Assessments	5 days
LS1.2-6 LS3.1	(See Learning Objectives from Unit Three)		UNIT THREE REVISIT	Chapters 8-11 End of Course Assessments	4-5 days
LS1.1 LS3.1-4	(See Learning Objectives from Unit Four)		UNIT FOUR REVISIT	Chapters 12-16 End of Course Assessments	5 days
LS1.3 LS4.1	<ul style="list-style-type: none"> List the basic needs of plants Explain how plants adapted to life on land Identified the feature that defines most plant life cycles 	PBL: Recovery Plans for Endangered Species CCC: Structure and function SEP: Cite evidence, use models	Chapter 22 Lesson 1 p. 636-640	Lesson 22.1 Quiz	1 day
LS4.1	<ul style="list-style-type: none"> List the characteristics of green algae Identify the factor that limits the size of bryophytes Explain why vascular tissue is important Identify the adaptations that allow seed plants to reproduce without water 	PBL: Recovery Plans for Endangered Species CCC: Structure and function SEP: Construct explanations, use models, ask questions, argue from evidence, analyze and interpret data	Chapter 22 Lesson 2 p. 641-650	Lesson 22.2 Quiz	2 days
LS1.3 LS4.1	<ul style="list-style-type: none"> Explain how different angiosperms are classified Explain what flowers are Describe how fertilization in angiosperms differs from fertilization in other plants Define vegetative reproduction Describe how fruits form 	PBL: Recovery Plans for Endangered Species CCC: Structure and function SEP: Cite evidence, guided inquiry, argue from evidence	Chapter 22 Lesson 3 p.651-663	Lesson 22.3 Quiz	2 days
LS1.3 LS4.1			Chapter 22 Review p.664-669	Chapter 22 Assessment	2-3 days

LS1.2 LS1.3 LS1.7	<ul style="list-style-type: none"> Explain how the human body is organized Define homeostasis 	PBL: Recovery Plans for Endangered Species CCC: Structure and function SEP: Use models, construct explanations, guided inquiry	Chapter 25 Lesson 1 p. 742-747	Lesson 25.1 Quiz	1 day
LS1.5	<ul style="list-style-type: none"> Describe the structures and functions of the digestive, excretory, circulatory, lymphatic, and respiratory systems 	PBL: Recovery Plans for Endangered Species CCC: Structure and function, cause and effect SEP: Use models, construct explanations, guided inquiry	Chapter 25 Lesson 2 p. 748-760	Lesson 25.2 Quiz	2-3 days
LS1.3 LS1.7	<ul style="list-style-type: none"> Describe the structures and functions of the nervous system, skeletal system, muscular system, integumentary system, endocrine system, and the male and female reproductive systems 	PBL: Recovery Plans for Endangered Species CCC: Structure and function, cause and effect SEP: Use models, construct explanations, guided inquiry	Chapter 25 Lesson 3 p.761-775	Lesson 25.3 Quiz	2-3 days
LS1.2 LS1.3	<ul style="list-style-type: none"> Describe what causes infectious diseases Identify the body's nonspecific defenses against pathogens Explicate the function of the immune system's specific defenses Explain the health problems that result when the immune system does not function properly 	PBL: Recovery Plans for Endangered Species CCC: Structure and function, cause and effect SEP: Use models, construct explanations, guided inquiry	Chapter 25 Lesson 4 p. 776-787	Lesson 25.4 Quiz	1-2 day