

CURRICULUM MAP (Revised 6.15.07)

Below is an outline of the Living Environment course that uses the Glencoe NY State Living Environment textbook. Please note that there is more depth in the book than is needed for the Living Environment Regents. As a result, please be aware that you will need to cut down on the material that you choose to cover, and be certain to plan well in advance in order to stay up to date with the below map. If needed, time can be cut on the Human Body (Unit 5), as students should have prior experience with those topics.

Teachers discretion should be used if topics are to be moved, as long as there is a reasonable purpose behind covering topics out of sequence. They are simply listed in this order since the book covers the topics in that sequence. Teachers should also become familiarized with past Regents exams in order to best choose topics to cover and topics to minimize or remove.

Subject: Living Environment – Biology

Textbook: Glencoe Living Environment NYS Edition, Copyright 2007

MONTH	TOPIC	CONCEPT/SKILL	ASSESSMENTS	RESOURCES
<p align="center">SEPTEMBER</p> <p>Unit 1: Ecology</p>	<p>CHAPTER 1 The Study of Life</p>	<p>What is Science? Nature of Science Methods of Science</p> <p>Scientific Inquiry Experimental Design Mathematical analysis</p>	<p>Chapter 1 Vocab. Chapter 1 Quiz</p>	<p>Problem Solving Lab Peanut Butter and Jelly Lab Paper Towel Strength Toilet Paper Comparison Lab Metric System Lab Pillbug Observation Lab Termite Behavior Lab</p>
	<p>CHAPTER 2 Principals of Ecology</p>	<p>Types of Relationships Flow of Energy</p>	<p>Chapter 2 Vocab. Chapter 2 Quiz</p>	<p>Stream Watch Program: Guest Speaker Field Trip Nitrates, Dissolved Oxygen Lab Predator Prey Lab from Flynn Water, N and C Cycles</p>

	CHAPTER 3 Communities, Biomes and Ecosystems	Community Ecology Terrestrial Biomes Aquatic Biomes	Chapter 3 Vocab. Chapter 2 Quiz	Food Chains/Food Web Lab Flow of Energy in an Ecosystem Hay Infusion Succession Lab Ecological Succession Lab Terrestrial Biome Brochures Effects of Humans on Mangroves Dichotomous Key: Leaves
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OCTOBER	CHAPTER 4: Population Ecology CHAPTER 5: Biodiversity/Conservation	Population Dynamics Human Population Limiting Factors Carrying Capacity Invasive Species: PBL Learning Start Healthy Biodiversity Threats to Biodiversity Conserving Biodiversity	Chapter 4 Vocab Chapter 4 Quiz	Yeast Population Lab Graphing Population Lab Check with Albany: Coyote/Deer Population Information for Sullivan County Invasive Species: PPT Assignment * Mangrove Lab Alternate Spotted Owl Discussion/Activity Owl Pellet Lab Activity * Biodiversity in Pond Water Trout Population / Stocking

UNIT 2: THE CELL	CHAPTER 6 Chemistry in Biology	Atoms, Elements, Compounds Chemical Reactions Water and Solution Building Blocks of Life	Chapter 6 Vocab Chapter 6 Quiz	Element/Molecule of Life Brochure Hemoglobin, Monosaccharide, etc Carbohydrate ID Lab: Indicators Adhesion/Cohesion Demonstration Homogeneous Heterogeneous Lab Physical vs. Chemical Changes Chemical Equation Activity *Scaled Down Potato Juice NZ Lab
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OCTOBER				
Unit 2: THE CELL	CHAPTER 7 Cell Structure/ Function	Cell Theory Cell Discovery Plasma Membrane Structures Organelles Cell Transport	Chapter 7 Vocab Chapter 7 Quiz	State Lab #6 Diffusion Trough a Membrane Egg Osmosis Diffusion Lab Animal/Plant Cell Coloring Lab
NOVEMBER	CHAPTER 8 Cellular Energy	How We Obtain Energy Photosynthesis Cellular Respiration Cellular Growth	Chapter 8 Vocab Chapter 8 Quiz	ATP Dehydration Syn. Lab Chromatography Lab Light and Photosynth Demo State Lab #2: Making Connections Lab on clothespins and Fatigue

	CHAPTER 9 Cellular Reproduction	Mitosis & Cytokinesis Cell Cycle Regulation	Chapter 9 Vocab Chapter 9 Quiz	What Happens When a Cell Divides Lab
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DECEMBER Unit 3: GENETICS	CHAPTER 10 Sexual Reproduction and Genetics CHAPTER 11 Complex Inheritance and Human Heredity	Meiosis Mundelein Genetics Gene Linkage Polyploidy Basic Human Inheritance Complex Inheritance Chromosomes and Heredity DNA DNA Replication	Chapter 10 Vocab Chapter 10 quiz Chapter 11 Vocab Chapter 11 quiz	Rebop Lab Punnett Square Activity Penny Lab Activity Probability Lab Activity Pedigree: color Blindness Royal Hemophilia Blue People of Kentucky Karyotyping Lab Activity (s)

	CHAPTER 12 Genetics and Biotech	DNA, RNA, Proteins Gene Regulation and Mutation	Chapter 12 Vocab Chapter 12 Quiz	DNA Replication Lab Protein Synthesis Lab Replace Table with State Lab Table DNA Mutation Lab
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DECEMBER	*Plant Reproduction *Asexual Reproduction CHAPTER 13	Applied Genetics DNA Technology The Human Genome	Vocab, Quiz Chapter 13 Vocab Chapter 13 Quiz	Flower Lab Slide Lab for Dicots and Monocots Gene Splicing Simulation Lab Antibiotic Resistance Lab Transformation Lab Activity Human Genome Video
JANUARY Unit 4: HISTORY OF BIOLOGICAL DIVERSITY	CHAPTER 14 History of Life	Fossil Evidence of Change Origins of Life	Chapter 14 Vocab Chapter 14 Quiz	State Lab #1: Relationships and Biodiversity Darwin Biography Evolution of Cars Evolution of Imaginary Organism

	CHAPTER 15 Evolution	Natural Selection and Darwin Evidence of Evolution Evolutionary Theory	Chapter 15 Vocab Chapter 15 Quiz	State Lab: Darwin's Finches Archaeopteryx Diagrams Biochemical Evidence for Evolution Lab
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FEBRUARY Unit 4: HISTORY OF BIOLOGICAL DIVERSITY	Chapter 16 Primate Evolution Chapter 17 Organizing Life's Diversity	Primates Hominoids Human Ancestry Types of Evolution Divergent Convergent History of Classification Modern Classification Domains and Kingdoms	Chapter 16 Vocab Chapter 16 Quiz Chapter 17 Vocab Chapter 17 Quiz	Primate Skull Lab Activity Salamander Classification Key Shark Classification Key DNA Bar Codes Activity from Book Bacteria or Virus Models and Brochures

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MONTH	TOPIC	CONCEPT/SKILL	ASSESSMENTS	RESOURCES
MARCH	CHAPTER 18 Integumentary, Skeletal and Muscular System	Integumentary System	Chapter 18 Vocab	Possible Dissections
Unit 4: HISTORY OF BIOLOGICAL DIVERSITY	Chapter 19 Nervous System	Skeletal System	Chapter 18 Quiz	
		Muscular System		
		Structure	Chapter 19 Vocab	Reaction Times
		Organization	Chapter 19 Quiz	Senses Lab
		The Senses		Human Responses Lab
	Effects of Drugs			
APRIL	Chapter 20 Circulatory, Respiratory and Excretory Systems	Circulatory System	Chapter 20 Vocab	Heart Rate Lab: Lung Capacity
Unit 5: THE HUMAN BODY		Respiratory System	Chapter 20 Quiz	Cut and Paste of Resp. System
		Excretory System		Goldfish Lab Activity
				Deer Heart Dissection
HOMEOSTASIS AND THE HUMAN BODY				Urine Simulation Lab
				Known and Unknown Samples
				Blood Type and Rh Factor Lab

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APRIL	Chapter 21 Digestive and Endocrine Systems	Digestive System Endocrine System	Chapter 21 Vocab Chapter 21 Quiz	Frog Dissection Cut and Paste Digestive System *Starch Cracker Digestion Times Lab on Nutrition Hormone Feedback Lab
MAY	Chapter 22 Human Reproduction and Development Chapter 23 The Immune System	Reproductive Systems Human Development Before Birth Birth, Growth and Aging Infectious Diseases The Immune System Noninfectious	Chapter 22 Vocab Chapter 22 Quiz Chapter 23 Vocab Chapter 23 Quiz	Menstrual Cycle Lab Menstrual Cycle Graphs Miracle of Life Video *Chick Embryo Lab Disease Brochure Antibody Lab Genetic Brochures You Make Me Sick/Wanted Poster Virus Video Bacteria Video

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MAY	Review of concepts and state labs.
JUNE	Review of Vocabulary Practice Regents Exams