OLEAN HIGH SCHOOL

Living Environment Biology: The Study of Life, Prentice Hall

Other Resources: Laboratory Manual / Review Book

Grades 9-12

Month	Topic Content	Skills	Concepts	Major Assessments	Learning Standards	Resource/ Text Page
Sept.	 The Nature of Life Biology as a Science Basic Chemistry Chemical Compounds of Life The Cell 	 Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	 Life Processes Tools of Biology Atomic Structure Chemical Bonding Acids & Bases Biochemistry Cell Structure 	 Exams Homework Lab Reports Quizzes Class Participation 	1.2d, Standard 1 Performance Indicators 1,2,3, 6.1c, 2.1f, 2.1g, 5.1f, 5.1g, 6.1c, 1.2a, 1.2e, 1.2f, 1.2g, 1.2h, 1.2i, 5.1b, 5.1e	Text – Chaps. 1 - V
Oct.	 Cellular Respiration Classification Nutrition Transport The Blood and Immunity 	 Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	 Respiration Types Taxonomy Nutrients & Digestion Circulation Blood Types Immune System 	 Exams Homework Lab Reports Quizzes Class Participation 	1.2h, 5.1a, 5.1c, 5.1d, 5.1e, Appendix A Lab Checklist, Standard 1, 1.2b, 1.2h, 1.3a, 5.2h, 1.2b, 1.3a1.2b, 1.3a, 5.2c. 5.2d, 5.2f, 5.2g	Text – Chaps. VI - X
Nov.	 Gas Exchange Excretion Support and Locomotion 	 Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	 Respiratory System Waste Removal Muscles & Skeleton 	 Exams Homework Lab Reports Quizzes Class Participation 	1.2 b, 1.3a	Text – Chaps. XI -XIII
Dec.	 Nervous Regulation Human Nervous System Chemical Regulation 	 Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving 	 Nerve Cells CNS & PNS Sense Receptors Glands & Hormones 	ExamsHomeworkLab ReportsQuizzesClass	1.2b, 1.2j, 1.3a, 5.3a, 1.2a, 5.1g,1.2c, 5.1g, 5.2b	Text – Chaps. XIV - XVI

	Plant Nutrition	 Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles Basic Vocabulary 	• Photosynthesis	Participation • Exams	5.1a, 5.1b,	Text –
Jan.	 Plant Structure Plant Function 	 Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	 Roots, Stems, Leaves Regulation 	 Homework Lab Reports Quizzes Class Participation 	Appendix A Lab Checklist, 5.3b	Chaps. XVII - XIX
Feb.	 Mitosis and Asexual Reproduction Meiosis and Sexual Reproduction Animal Development Human Reproduction Sexual Reproduction in Plants 	 Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	 Types of Asexual Reproduction Gamete Formation Embryonic Development Reproductive Systems 	 Exams Homework Lab Reports Quizzes Class Participation 	2.1d, 2.1e, 4.1b, 4.1c, 4.1a, 4.1d, 4.1e, 4.1f, 4.1g, 4.1h	Text – Chaps. XX - XXIV
Mar.	 Mendelian Genetics Modern Genetics Applied Genetics 	 Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	 Heredity Fundamentals of Genetics DNA & Inheritance Gene Expression Mutations Genetic Engineering 	 Exams Homework Lab Reports Quizzes Class Participation 	2.1b, 2.1c, 2.1a, 2.1f, 2.1g, 2.1h, 2.1i, 2.1j, .2.2d, 3.1f, 5.2h, 2.2a, 2.2b, 2.2c, 2.2e, 3.1b, 3.1c, 3.1d, 4.1b, 5.2i	Text – Chaps. XXV– XXVII
Apr.	 Evidence of Evolution Modern Theory of Evolution Monerans, Protists and Viruses Fungi and Plants 	 Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	 Evidence of the Origins of Life Adaptations Natural Selection Bacteria, Protozoans, & Viruses Fungi and Plant Diversity 	 Exams Homework Lab Reports Quizzes Class Participation 	2.1a, 3.1a, 3.1e, 3.1j, 3.1l, 2.2a, 3.1e, 3.1f, 3.1g, 3.1h, 3.1i, 3.1k, 2.2c, 5.1b, 5.2b, 5.2e	Text – Chaps. XXVIII - XXXI

Behavior Organization In The Biosphere Biomes of the Earth Human Ecology	Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles	 Innate, Learned & Social Behavior Cycles and Relationships Land & Water Biomes Environmental Damage and Restoration 	 Exams Homework Lab Reports Quizzes Class Participation 	3.1i, 1.1a, 1.1c, 1.1e, 1.1f, 6.1b, 6.1c, 6.1d, 6.1e, 6.1g, 6.2a, 6.2b, 6.3a, 6.3b, 6.3c, 7.1b, 7.2b, 1.1d, 5.2h, 6.1f, 7.1a, 7.1c, 7.2a, 7.2a, 7.2b, 7.2c	Text – Chaps. XXXVI– XXXIX
Regents Review and Practice Questions June	 Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	 See Sept. – May Concepts Laboratory Experiences 	 Practice Exams Daily Quizzes & Homework Class Participation 	Incorporation of all standards in review of the chapters	Text – Chaps. I - XXXI & XXXVI – XXXIX Also Review Book