

OLEAN HIGH SCHOOL

Living Environment/Applied Biochemistry

Grades 9 - 12

Biology: The Living Environment, Holt

Other Resources: Laboratory Manual / Review Book

Month	Topic Content	Skills	Concepts	Major Assessments	Learning Standards	Resource/ Text Page
Sept.	<ul style="list-style-type: none"> The Nature of Life Biology as a Science Basic Chemistry Chemical Compounds of Life The Cell 	<ul style="list-style-type: none"> Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	<ul style="list-style-type: none"> Life Processes Tools of Biology Atomic Structure Chemical Bonding Acids & Bases Biochemistry Cell Structure 	<ul style="list-style-type: none"> Exams Homework Lab Reports Quizzes Class Participation 	Std. 1 – 1.1a, c, 1.2a, 1.4a, 2.2a, 2.3a, c, 3.1a, 3.4a. Std. 4 – 1.2a, c, d, f, g, h, i, .3a, 2.1a, f, 2.2a, e, 5.1a, b, f, g, 5.2j, 7.1b.	Text – Chaps. 1, 2, 3, 4
Oct.	<ul style="list-style-type: none"> Cellular Respiration Classification Nutrition Transport The Blood and Immunity 	<ul style="list-style-type: none"> Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	<ul style="list-style-type: none"> Respiration Types Taxonomy Nutrients & Digestion Circulation Blood Types Immune System 	<ul style="list-style-type: none"> Exams Homework Lab Reports Quizzes Class Participation 	Std. 1 – 1.1a, b, 1.2a, 1.3a, b, 2.2a, 2.3a, b, 3.4a, 3.5a, 3.1a. Std. 4 – 1.2b, d, e, h, 1.3a, 3.2a, 6.2a, 5.1a, c, h, 5.1b, d, 5.2b, c, d, e, f, g, 6.2a, b.	Text – Chaps. 5, 14, 19, 20, 38, 39, 40
Nov.	<ul style="list-style-type: none"> Gas Exchange Excretion Support and Locomotion 	<ul style="list-style-type: none"> Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	<ul style="list-style-type: none"> Respiratory System Waste Removal Muscles & Skeleton 	<ul style="list-style-type: none"> Exams Homework Lab Reports Quizzes Class Participation 	Std. 1 – 1.1a, 1.2a, 1.3a, b, 2.3a, b, 3.4a. Std. 4 – 1.2a, b, d, e, h, 5.1c, d, h, 5.2h.	Text – Chaps. 38, 39, 37
Dec.	<ul style="list-style-type: none"> Nervous Regulation Human Nervous System Chemical Regulation 	<ul style="list-style-type: none"> Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	<ul style="list-style-type: none"> Nerve Cells CNS & PNS Sense Receptors Glands & Hormones 	<ul style="list-style-type: none"> Exams Homework Lab Reports Quizzes Class Participation 	Std. 1 – 1.1a, 1.2a, 1.3b, 2.3a, c, 3.1a, 3.4a, c, 3.5a, b. Std. 4 – 1.2b, d, j, 5.2h.	Text – Chaps. 41, 42

Jan.	<ul style="list-style-type: none"> Plant Nutrition Plant Structure Plant Function Sexual Reproduction in Plants 	<ul style="list-style-type: none"> Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	<ul style="list-style-type: none"> Photosynthesis Roots, Stems, Leaves, Flowers Regulation 	<ul style="list-style-type: none"> Exams Homework Lab Reports Quizzes Class Participation 	Std. 1 – 1.1a, 1.2a, 2.2a, 2.3a, 3.1a, 3.4a. Std. 4 – 1.2a, b, h, 4.1a, 4.1b, 5.1a, 5.1b, d, 5.2j, 6.1e, g, 6.2a.	Text – Chaps. 5, 23-26.
Feb.	<ul style="list-style-type: none"> Mitosis and Asexual Reproduction Meiosis and Sexual Reproduction Animal Development Human Reproduction 	<ul style="list-style-type: none"> Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	<ul style="list-style-type: none"> Types of Asexual Reproduction Gamete Formation Embryonic Development Reproductive Systems 	<ul style="list-style-type: none"> Exams Homework Lab Reports Quizzes Class Participation 	Std. 1 – 1.1a, 1.2a, b, 2.2a, 2.3a, 3.1a, 3.4a. Std. 4 – 1.2f, i, 2.1b, c, d, e, f, g, h, 4.1b, f, g, h, 5.2h.	Text – Chaps. 6, 7, 43
Mar.	<ul style="list-style-type: none"> Mendelian Genetics Modern Genetics Applied Genetics 	<ul style="list-style-type: none"> Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	<ul style="list-style-type: none"> Heredity Fundamentals of Genetics DNA & Inheritance Gene Expression Mutations Genetic Engineering 	<ul style="list-style-type: none"> Exams Homework Lab Reports Quizzes Class Participation 	Std. 1 – 1.1a, b, c, 1.2a, 1.3b. Std. 4 – 2.1b, c, d, e, f, g, i, 2.2a, e, 3.1d, f.	Text – Chaps. 8, 9, 10, 11
Apr.	<ul style="list-style-type: none"> Evidence of Evolution Modern Theory of Evolution 	<ul style="list-style-type: none"> Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	<ul style="list-style-type: none"> Evidence of the Origins of Life Adaptations Natural Selection 	<ul style="list-style-type: none"> Exams Homework Lab Reports Quizzes Class Participation 	Std. 1 – 1.1a, b, 1.2a, 2.3b, 3.1a. Std. 4 – 3.1e, f, g, h, j, l.	Text – Chaps. 12, 13
May	<ul style="list-style-type: none"> Behavior Organization In The Biosphere Biomes of the Earth Human Ecology 	<ul style="list-style-type: none"> Basic Vocabulary Lab Techniques and Cooperative Learning Reading and Problem Solving Note Taking Critical Thinking Class Participation Apply Scientific Concepts & Principles 	<ul style="list-style-type: none"> Innate, Learned & Social Behavior Cycles and Relationships Land & Water Biomes Environmental Damage and Restoration 	<ul style="list-style-type: none"> Exams Homework Lab Reports Quizzes Class Participation 	Std. 1 – 1.1a, b, 1.2a, 2.2a, 2.3a, b, c, 3.1a, 3.4a, b, c, 3.5a. Std. 4 – 1.1a, b, c, d, f, 3.1g, i, 6.1f, g, 6.2a, 6.3a, c, 7.1b, c, 7.3a, b.	Text – Chaps. 36, 15-18

June	<ul style="list-style-type: none"> • Regents Review and Practice Questions 	<ul style="list-style-type: none"> • Basic Vocabulary • Lab Techniques and Cooperative Learning • Reading and Problem Solving • Note Taking • Critical Thinking • Class Participation • Apply Scientific Concepts & Principles 	<ul style="list-style-type: none"> • See Sept. – May Concepts • Laboratory Experiences 	<ul style="list-style-type: none"> • Practice Exams • Daily Quizzes & Homework • Class Participation 	Incorporation of all standards in review of the chapters	Text – Chaps. 1-20, 23-26, 36-43 Also Review Book
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