

JACKSON PUBLIC SCHOOLS

High School (Jackson High School) Biology(1-2) Pacing Guide

Grades: 9, 10, 11, 12

Difficulty: 1-2

Biology (1-2) is an introductory biology course. This course is designed for the struggling learner, who may not be reading at grade level and needs additional support. It will cover all major topics outlined by the State of Michigan's High School Biology Content Expectations. Topics included in this Biology HSCE are: the organization and development of living systems, the interdependence of living systems and the environment, genetics, evolution, and biodiversity. There will be many demonstrations, dissections, labs, model construction, opportunities for hands on projects, and team/partner collaboration.

Textbook: Miller & Levine BIOLOGY 2009 Michigan aligned

Times Spent	Chapters Covered	State Objectives Covered
Biology A		
4 weeks	Unit I The Nature of Life Chapter 1 Science of Biology Chapter 2 The Chemistry of Life Unit III Cells Chapter 7 Cell Structure and Function	B1.1 A,B,C,D Scientific Inquiry B1.2 Scientific Reflection and Social Implications B2.1 A,B Transformation of Matter and Energy in Cells B2.2 A,B,C,D Organic Molecules B2.2x f,g Proteins B2.3 A,B,C Maintaining Environmental Stability B2.4 A,B,C,e,f,g Cell Specialization
4 weeks	Chapter 8 Photosynthesis Chapter 9 Cellular Respiration and Fermentation Chapter 10 Cell Growth and Division	B2.5 Living organism composition B2.5 f Plants Structure and Function B2.5x A,B,C,e,h,i Energy Transfer B3.1 Photosynthesis and Respiration B4.3 Cell Division – Mitosis B2.1x d,e,Cell Differentiation
4 weeks	Unit IV Genetics Chapter 11 Introduction to Genetics Chapter 12 DNA Chapter 13 RNA and Protein Synthesis Chapter 14 Human Heredity Chapter 15 Genetic Engineering	B4.1 Genetics and inherited Traits B4.2 DNA B4.2x DNA, RNA, Protein Synthesis B4.3Cell Division – Meiosis B4.4x Genetic Variation
Common Assessments	A common assessment exam has been created and is used to assess student mastery of HSCEs.	
Biology B		
4 weeks	Unit V Evolution Chapter 16 Darwin's Theory of Evolution Chapter 17 Evolution of Populations Chapter 18 Classification Unit VI Chapter 20 Viruses & Prokaryotes	B5.1 A,B,c,d,e,f,g. Theory of Evolution B5.2 a,b,c Molecular Evidence B5.3 A,B,C,d,e,f Natural Selection B 2.4 h,i Cell Specialization B 2.4 d Classification
4 weeks	Unit VII Animals Chapter 25 Introduction to Animals Chapter 27 Animal Systems I Chapter 28 Animal Systems II	B2.3 d,e,f Maintaining Environmental Stability B2.5 B Living Organism Composition
4 weeks	Unit II Ecology Chapter 3 The Biosphere Chapter 4 Ecosystems and Communities Chapter 5 Populations Chapter 6 Humans in the Biosphere	B3.2 Ecosystems B3.3 Element Recombination B3.4 Changes in Ecosystems B3.4x Human Impacts B3.5 Populations B3.5x Environmental Factors

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