

Wallenpaupack Area School District Planned Course Curriculum Guide

High School Science

Diversity of Life

Course Description:

This course is designed to be an overview of the 6 Kingdoms of life.

Initial Creation Date (if applicable) and Revision Dates:

10/13/2025

Wallenpaupack Area School District Curriculum	
COURSE: Diversity of Life	GRADE/S: 11-12
UNIT 1: Classification	TIMEFRAME: about 5days

PA COMMON CORE/NATIONAL STANDARDS: 3.1.9-12.S Life Science: Natural Selection and Evolution
UNIT OBJECTIVES (SWBATS): Students who demonstrate understanding can communicate scientific information that common ancestry and biological evolution are supported by multiple lines of empirical evidence.
INSTRUCTIONAL STRATEGIES/ACTIVITIES: Notes, physical dichotomous key lab, making a dichotomous key
ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative): Quiz, grading activities
DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):
RESOURCES (Technology Based Resources, Text Resources, etc.): Schoology, physical lab
KEY VOCABULARY: Classification, Taxonomy, Domain, Prokarya, Eukarya, Kingdom, Phylum, Class, Order, Family, Genus, Species, Dichotomous key

Wallenpaupack Area School District Curriculum	
COURSE: Diversity of Life	GRADE/S: 11-12
UNIT 2: Kingdoms Archaeobacteria/Eubacteria	TIMEFRAME: 7 days

PA COMMON CORE/NATIONAL STANDARDS: 3.1.9-12.O Life Science: Interdependent Relationships in Ecosystems	
UNIT OBJECTIVES (SWBATS): Students who demonstrate understanding can evaluate the evidence for the role of group behavior on individual and species' chances to survive and reproduce.	
INSTRUCTIONAL STRATEGIES/ACTIVITIES: Notes and discussion.	
ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative): Data chart on bacterial disease, PowerPoint on a specific bacterial disease, research activity on antibiotic resistance	
DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):	
RESOURCES (Technology-Based Resources, Text Resources, etc.): Schoology, Web-based research	
KEY VOCABULARY: Archaeobacteria, Eubacteria, Resistance, Disease, Vector, Antibiotic, Transmission	

Wallenpaupack Area School District Curriculum	
COURSE: Diversity of Life	GRADE/S: 11-12
UNIT 3: Kingdom Protist	TIMEFRAME: about 7 days
PA COMMON CORE/NATIONAL STANDARDS: 3.1.9-12.S Life Science: Natural Selection and Evolution	
UNIT OBJECTIVES (SWBATS):	

Students who demonstrate understanding can communicate scientific information that common ancestry and biological evolution are supported by multiple lines of empirical evidence.
INSTRUCTIONAL STRATEGIES/ACTIVITIES: Notes and discussion
ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative): Quiz, Research project on how protists came to be from an evolution perspective. PowerPoint.
DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):
RESOURCES (Technology-Based Resources, Text Resources, etc.): Schoology, Web-based research
KEY VOCABULARY: Protist, Evolution, Vector, Organelle, Transmission

Wallenpaupack Area School District Curriculum	
COURSE: Diversity of Life	GRADE/S: 11-12
UNIT 4: Kingdom Fungi	TIMEFRAME: about 8 Days

PA COMMON CORE/NATIONAL STANDARDS: 3.1.9-12.B Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.
UNIT OBJECTIVES (SWBATS): Students who demonstrate understanding can develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific

functions within multicellular organisms.
INSTRUCTIONAL STRATEGIES/ACTIVITIES: Notes and discussion
ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative): Quizzes, Research Assignments, Children's Storybook, PowerPoint
DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):
RESOURCES (Technology-Based Resources, Text Resources, etc.): Schoology, Web-based research
KEY VOCABULARY: Fungus, Hyphae, Mycelium, Decomposer

Wallenpaupack Area School District Curriculum	
COURSE: Diversity of Life	GRADE/S: 11-12
UNIT 5: Kingdom Plantae	TIMEFRAME: about 12 days

PA COMMON CORE/NATIONAL STANDARDS: 3.1.9-12.F Construct and revise an explanation based on evidence for how carbon, hydrogen, and oxygen from sugar molecules may combine with other elements to form amino acids and/or other large carbon-based molecules.
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UNIT OBJECTIVES (SWBATS): Students who demonstrate understanding can construct and revise an explanation based on evidence for how carbon, hydrogen, and oxygen from sugar molecules may combine with other elements to form amino acids and/or other large carbon-based molecules.
INSTRUCTIONAL STRATEGIES/ACTIVITIES: Notes and discussion
ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative): Quizzes, Design a vegan menu for a vegan Restaurant, PowerPoints
DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):
RESOURCES (Technology-Based Resources, Text Resources, etc.): Schoology, Web-based research
KEY VOCABULARY: Plants, Vascular, Non-Vascular, Gymnosperm, Angiosperm, Division

Wallenpaupack Area School District Curriculum	
COURSE: Diversity of Life	GRADE/S: 11-12
UNIT 6: Kingdom Animalia	TIMEFRAME: about 45 days

PA COMMON CORE/NATIONAL STANDARDS: 3.1.9-12.S Life Science: Natural Selection and Evolution
UNIT OBJECTIVES (SWBATS): Students who demonstrate understanding can communicate scientific information that common ancestry and biological evolution are supported by multiple lines of empirical evidence.
INSTRUCTIONAL STRATEGIES/ACTIVITIES: Notes and discussion
ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative): Quizzes, PowerPoints, Reports, Compare and Contrast, Storybook, Magazine Articles

DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):
RESOURCES (Technology-Based Resources, Text Resources, etc.): Schoology, Web-based research
KEY VOCABULARY: Animal, Symmetry, Porifera, Cnidaria, Mollusca, Platyhelminthes, Nematoda, Annelid, Chordata

Wallenpaupack Area School District Curriculum	
COURSE: Diversity of Life	GRADE/S: 11-12
UNIT 1:	TIMEFRAME:

PA COMMON CORE/NATIONAL STANDARDS:
UNIT OBJECTIVES (SWBATS):
INSTRUCTIONAL STRATEGIES/ACTIVITIES:
ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):
DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):
RESOURCES (Technology-Based Resources, Text Resources, etc.):
KEY VOCABULARY:

