Danville Area School District
Course Overview and Scope and Sequence

Course Title: Zoology
Content Area: Science
Grade Level: 11th and/or 12th
Date Developed: June 2023

COURSE OVERVIEW: Zoology is a semester course that focuses on animal biology. It presents a survey of the animal kingdom with emphasis on diversity, evolutionary relationships, and functional adaptation. Students will be able to explain the position of a group in the animal kingdom, identify the characteristics that distinguish one group from another, discuss the shared properties of living systems within the animal kingdom, discuss the structural levels of organization of animal body plans, and compare anatomical and physiological function among various members of the animal kingdom. This will be accomplished through lecture, observation, laboratory exercises (including dissection), presentations, projects, and demonstrations.

ANCHOR STANDARDS:

1. Structure and Function
2. Growth and Development
3. Interdependent Relationships in Ecosystems
4. Ecosystem Dynamics, Functioning, and Resilience
5. Social Interactions and Group Behavior
6. Evidence of Common Ancestry and Diversity
7. Natural Selection and Adaptation

KEY COURSE TEXT AND MATERIALS: none - all materials are teacher generated

KEY ASSESSMENTS: 7 unit tests, 8 laboratory analysis assignments for animal dissections

Diagnostic: None
Formative: labs, dissections, class discussions, reading guides
Summative: tests and projects

SCOPE AND SEQUENCE					
Unit	PRIORITY STANDARDS	SUPPORTING STANDARDS	ASSESSMENT	MATERIALS	TIMEFRAME
1. Intro to Zoology	3.1.9-12B	3.1.9-12H 3.1.9-12I 3.1.9-12L 3.1.9-12M 3.1.9-12S 3.1.9-12T 3.1.9-12W 3.1.9-12X	Class discussions, quiz and test	Content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	12 days
2. Simple Animals	3.1.9-12B	3.1.9-12H 3.1.9-12I 3.1.9-12L 3.1.9-12M 3.1.9-12S 3.1.9-12T 3.1.9-12W 3.1.9-12X	Starfish dissection, quiz and test	Content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	13 days
3. Worms	3.1.9-12B	3.1.9-12H 3.1.9-12I 3.1.9-12L 3.1.9-12M 3.1.9-12S 3.1.9-12T 3.1.9-12W 3.1.9-12X	Class discussions, quiz and test	Content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	13 days

4. Mollusks	3.1.9-12B	3.1.9-12H 3.1.9-12I 3.1.9-12L 3.1.9-12M 3.1.9-12S 3.1.9-12T 3.1.9-12W 3.1.9-12X	Squid dissection, quiz and test	Content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	13 days
5. Arthropods	3.1.9-12B	3.1.9-12H 3.1.9-12I 3.1.9-12L 3.1.9-12M 3.1.9-12S 3.1.9-12T 3.1.9-12W 3.1.9-12X	Crayfish dissection, quiz and test	Content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	13 days
6. Insects	3.1.9-12B	3.1.9-12H 3.1.9-12I 3.1.9-12L 3.1.9-12M 3.1.9-12O 3.1.9-12S 3.1.9-12T 3.1.9-12W 3.1.9-12X	Anatomy of insects, grasshopper dissection, quiz and test	Content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	13 days
7. Vertebrates	3.1.9-12B	3.1.9-12H 3.1.9-12I 3.1.9-12L 3.1.9-12M 3.1.9-12S 3.1.9-12T 3.1.9-12W 3.1.9-12X	Perch and dogfish dissection, quiz and test	Content is teacher created. In addition to lab/project supplies, materials are posted in Google Classroom.	13 days