

**Argenta-Oreana High School
Zoology**

Date Semester	IL Learning Standards	Unit and/or Essential Question Content and/or Skills	Assessments and/or Products
1 st semester	11.A.5a 11.A.4b 11.A.4c 11.A.4d 12.A.4b 12.A.4c	CHAPTERS 1—3 <ul style="list-style-type: none"> • Activities stressing observation, possible variables for events, forming and writing hypotheses, and using the scientific method • Chemical nature of cells • Why cells must be small • Structure of cells, tissue, organs • Branches of zoology • Development of diplobalstic and triploblastic animal bodies 	
	11.A.4b 12B.4a	CHAPTER 13 ANIMAL BEHAVIOR <ul style="list-style-type: none"> • What causes behavior—proximate & ultimate causes • Anthropomorphism • Development of behavior • Learning—habituation, classical conditioning, latent and insight learning • Control of behavior—nervous and endocrine systems • Communication • Behavior ecology—habitat selection, foraging behavior • Social behavior 	Use newly hatched chicks to demonstrate pecking order Chapter packet Quizzes and test
	12.B.4a 12.B.5a	CHAPTER 16 CLASSIFICATION <ul style="list-style-type: none"> • Using the hierarchy system • Animal systematics • Convergent evolution • Homologous structures 	Chapter packet Lab constructing a cladogram with wooden animals Quizzes and test

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	12.A.4c 12.A.5a 12A.4b	CHAPTER 17 ANIMAL-LIKE PROTISTS THE PROTOZOANS <ul style="list-style-type: none"> • Homeostasis of single plasma membrane creatures • Symbiotic life-styles • Protozoan taxonomy • Phylum Sarcomastigophora—move with flagella or pseudopods • Phylum Apicomplexa—no form of self-movement • Phylum Ciliophora—move with cilia • How they carry on functions • Guest speaker—from mosquito abatement department on how they monitor and control mosquitoes, vectors of many protozoan parasites 	Lab—feeding amoeba; looking at pond water Chapter packet Quizzes and test
	12.A.4c 12.A.4b 12.B.4b	CHAPTER 18 PORIFERA AND CNIDARIA Phylum Porifera <ul style="list-style-type: none"> • Cell types, body forms • Maintenance functions • Reproduction Phylum Cnidaria <ul style="list-style-type: none"> • Cell types, body forms • Maintenance functions • Alternation of generation • Reproduction • Video showing both phyla in natural setting 	Chapter packet Color sheets Quizzes and test
	12.A.4c 12.A.4b	CHAPTER 19 PLATYHELMINTHES <ul style="list-style-type: none"> • Class Turbellaria—the Planaria • Class Monogenea—flukes that are ectoparasites of fish 	

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		<ul style="list-style-type: none"> • Class Trematoda—parasitic flukes with more than one host • Class Cestoidea—tapeworms • Importance of this phyla; medical conditions • Video 	
	11a.4f 12.A.4c 12.A.4b	CHAPTER 20 ROTIFERA AND NEMATODA <ul style="list-style-type: none"> • Evolutionary perspective and advances Phylum Rotifera <ul style="list-style-type: none"> • External and internal features Phylum Nematoda <ul style="list-style-type: none"> • External and internal features • Important Nematoda parasites of humans • Video • Research human parasites in computer lab 	Chapter packet Color sheet Computer research and report on a nematode parasite Quizzes and test
	12.A.4c 12.A.4b	CHAPTER 21 MOLLUSCA <ul style="list-style-type: none"> • Evolutionary perspective and advances • Molluscan characteristics • Class Gastropoda • Class Bivalvia Class Cephalopoda • Video • 	Dissection of mussel or clam; analysis and drawings Color sheet Chapter packet Quizzes and test
	12.A.4c 12.A.4b	CHAPTER 22 ANNELIDA <ul style="list-style-type: none"> • Evolutionary perspective and advances • Class Polychaeta • Class Oligochaeta • Class Hirudinea 	Dissection of earthworm; analysis and drawings Stimuli/reaction experiment with

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		<ul style="list-style-type: none"> • Video 	earthworm Chapter packet Quizzes and test
	12.A.4c 12.A.4b	CHAPTER 23 PHYLUM ARTHROPODA <ul style="list-style-type: none"> • Evolutionary perspective and advances • Metamorphosis • Subclass Chelicerata • Subclass Crustacea • Video 	Dissection of crayfish; analysis and drawings Experiments with Isopoda (pillbugs) Chapter packet Color sheets Quizzes and test
	12.A.4c 12.A.4b	CHAPTER 24 PHYLUM ARTHROPODS (HEXAPODS AND MYRIAPODS) <ul style="list-style-type: none"> • Evolutionary perspective and advances; flight • Class Diplopoda • Class Chilopoda • Class Hexapoda • Videos 	Dissection of Lubber grasshopper; analysis and drawings Recognition of specimens Chapter packet Quizzes and test
	12.A.4c 12.A.4b	CHAPTER 25 PHYLUM ECHINODERMATA <ul style="list-style-type: none"> • Evolutionary perspective and advances; water vascular 	Dissection of starfish; analysis and drawings

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		system <ul style="list-style-type: none"> • Starfish as example • Videos 	Chapter packet Quizzes and test
	12.A.4c 12.A.4b	CHAPTER 27 CHORDATES—FISH <ul style="list-style-type: none"> • Evolutionary perspective and advances • Class Agnatha • Class Chondrichthyes • Class Osteichthyes • Videos 	Dissection of Dogfish shark; analysis and drawings Chapter packet Quizzes and Test
	12.A.4c 12.A.4b	CHAPTER 28 AMPPHIBIANS <ul style="list-style-type: none"> • Evolutionary perspective and advances • Videos 	Dissection of bullfrog; analysis and drawings Chapter packet Quizzes and test
	12.A.4c 12.A.4b	CHAPTER 29 REPTILES <ul style="list-style-type: none"> • Evolutionary perspective and advances • Videos • Dichotomous keying of representatives 	Dissection of snake; analysis and drawings Chapter packet Quizzes and test
	12.A.4c 12.A.4b	CHAPTER 30 BIRDS <ul style="list-style-type: none"> • Evolutionary perspective and advances • Videos • Development of chick; Embryology study • Migration 	Embryology lab Chapter packet Quizzes and test

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	12.A.4c 12.A.4b	CHAPTER 31 MAMMALS <ul style="list-style-type: none"> • Evolutionary perspective and advances • Diversity of mammals • Videos 	Chapter packet Quizzes and test
	12.A.4c 12.A.4b	CHAPTER 32 (IF TIME ALLOWS) <ul style="list-style-type: none"> • A comparative perspective of animal systems: support, movement, communication, circulation, gas exchange, nutrition & digestion, regulation, reproduction and development 	Chapter packet Quizzes and test
		A FIELD TRIP TO SHEDD AQUARIUM AND THE FIELD MUSEUM IN CHICAGO IS PART OF THE CURRICULUM. WHILE AT THE MUSEUM, AN ASSIGNMENT IS REQUIRED.	
		Guest speakers are invited when available to speak about their area of expertise on subjects covered.	