Key Topics	Learning Objectives	Learning Materials (LO Alignment)	Optional/Supplemental Materials
KT 1: Wildlife Biology *HS-LS4-1*	LO 1.1: Distinguish between major taxonomic classifications of wildlife, their typical roles in ecosystems, and their habitat requirements (including mammals, birds, fish, reptiles, amphibians, and insects). LO 1.2: Explain an animal's habitat, dietary requirements, and life cycle based on animal signs. LO 1.3: Provide examples of physical and behavioral adaptations (such as mimicry, camouflage, freeze response, hibernation, special organs, et cetera) and how these adaptations benefit wildlife. LO 1.4: Describe the significance of migration in the life cycle of certain wildlife species.	Classification of Animals: The Complete Guide (LO 1.1) Organization of Life: Species, Populations, Communities, and Ecosystems (LO 1.1) Taxonomy (LO 1.1) Wildlife Ecology Basics (LO 1.1) Mastering Animal Signs: Essential Tracking Skills for Hunter (LO 1.2) OA Guide to Animal Tracking (LO 1.2) Wildlife Signs Slides Outline (LO 1.2) Animal Adaptations, (LO 1.3) Winter Adaptations of Animals (LO 1.3) Wildlife Migration: A Primer (LO 1.4)	[Reptiles and Amphibians of Arizona](#) (LO 1.1) [Insects, National Park Service](#) (LO 1.1)
KT 2: Wildlife Ecology *HS-LS1-2, HS-LS2-1, HS-LS2-6, HS-LS2-8, HS-LS4-5*	LO 2.1: Diagram a food web with descriptions of the flow of energy within it. LO 2.2: Identify the essential components of a habitat. LO 2.3: Identify biotic and abiotic factors in ecosystems. LO 2.4: Describe the different levels of ecosystem organization, including individuals, populations, communities, and ecosystems. LO 2.5: Describe competition between species, list examples of this relationship, and explain different strategies used by wildlife to avoid or overcome competition (such as niche partitioning, behavioral adaptations, et cetera) LO 2.6: Explain the importance of the edge effect for species diversity and wildlife habitat. LO 2.7: Explain the importance of pollinators in natural and agricultural ecosystems.	Ecosystem Ecology (LO 2.1) Introduction to and Components of Food Webs (LO 2.1) Organization of Life (LO 2.2) Fundamentals of Physical Geography (LO 2.2) Biotic/Abiotic, Curriculum Resources (LO 2.3) Wildlife Ecology Basics (LO 2.4) 15.1 Introduction and Types of Competition (LO 2.5) Khan Academy Niches and Competition (LO 2.5) Edge and Other Wildlife Concepts (LO 2.6) Bring Back the Pollinators (LO 2.7) The Importance of Pollinators (LO 2.7)	
KT 3: Field Skills	LO 3.1: Use a field guide or dichotomous key to identify New Mexico wildlife species. LO 3.2: Identify common New Mexico wildlife species from preserved specimens, skulls, skeletons, pelts, tracks, scat, and other animal signs without the use of a key. LO 3.3: Identify invasive and exotic species in New Mexico with and without a field guide.	How to Use a Field Guide (LO 3.1) Massachusetts Envirothon Guide (LO 3.1) NM FFA Species List (LO 3.2) Native Fishes in New Mexico (LO 3.2) USGS Non Indigenous Aquatic Species (LO 3.3) USDA National Invasive Species Information Center (LO 3.3)	FFA Wildlife Identification Slideshow (LO 3.1-2.3) [Reptiles and Amphibians of Arizona](#) (LO 3.1) [New Mexico Reptiles](#) [Bird ID Skills](#) (LO 3.1-3.2) [Backyard Birds in New Mexico](#) (LO 3.1-3.2) [Audubon Online Bird Field Guide](#) (LO 3.1-3.2)
KT 4: Wildlife Conservation and Society *HS-LS1-2, HS-LS2-1, HS-LS2-7, HS-LS4-5, HS-LS4-6, HS-ESS3-4, HS-ESS3-5*	LO 4.1: Provide definitions and examples for each species designation (such as common, rare, endangered, threatened, endemic, extirpated, and extinct) to illustrate the differences between them. LO 4.2: Describe the roles and functions of keystone, umbrella, game, non-game, and indicator species within ecosystems. LO 4.3: Interpret population and demographic models. LO 4.4: Describe the impacts that changes in climate have on wildlife and their habitat. LO 4.5: Describe how invasive and exotic species are spread. LO 4.6: Outline the impacts of invasive and exotic species on New Mexico's ecosystems. LO 4.7: Recommend wildlife management practices for a variety of uses (including conservation, connectivity, and hunting) for a variety of landscapes (including grasslands, forests, croplands, wetlands, and urban settings).	Listing Status (LO 4.1) Introduction to Population Demographics (LO 4.3) Population Ecology (LO 4.3) Wildlife and Climate Change (LO 4.4) Invasive Species 101 (LO 4.5) Pathways, National Invasive Species Information Center (LO 4.5) Invasive Species in New Mexico (LO 4.6) The Basics of Wildlife Management (LO 4.7)	