

Kalkaska High School Curriculum Map
Subject: Outdoor Science and Conservation
Grade Levels: 10-12

Month	Unit/Topic of Study	Standards	Key Vocabulary	Test Taking and Reading Strategies	Kagan Strategies	Math Skills	Writing in the Content Area	Assessments
Sept	Dendrology / Limnology	HS-LS1-5 HS-LS2-3	Canopy Growth rings Climax Forest Crown Class Deciduous Coniferous Photosynthesis Aerobic Anaerobic Eutrophication Watershed Food Chain Nutrients Buffer Strip	Reading, Annotating, and Vocabulary	Find-the-Fiction StandUp-Hand Up-PairUp Jot Thoughts		Conduct research to define issues and challenges, Cite data, evidence, and information to support your evaluation of an issue.	Poster Project
Oct	Map & Compass / Habitats	HS-LS2-6	Bearing Orientation Direction of travel Habitat Geography Climate Organism	Reading, Annotating, and Vocabulary	Jot Thoughts Mix-Pair-Share			Orienteering Trail Build Your Own Habitat (continues into November)
Nov	Species interactions, energy, and biological communities	HS-LS2-1 HS-LS2-6	Species Community Matter Energy Ecosystems Symbiosis niche	Reading, Annotating, and Vocabulary	Jot Thoughts Continuous RoundRobin	Graphing		Finished Habitat

Dec	Tracking Animal Identification		Aging Gate Stride Footfall Footload	Reading, Annotating, and Vocabulary	Jot Thoughts RoundRobin			Tracking Guide
Jan	Winter Shelters / Survival skills	HS-LS2-6 HS-LS4-5 HS-ESS3-1 HS-PS2-3	Hypothermia Windchill Insulation Migration Dormancy Toleration Species Extinction	Reading, Annotating, and Vocabulary	Jot Thoughts RoundRobin	Calculation measurements and volume		Protect My Egg! Winter Shelter Build
Feb	Winter Ecology	HS-LS2-8 HS-LS4-4	Adaptation Subnivian Winterkill Natural Selection Hibernation Dormancy Chionophile Chioneuphore	Reading, Annotating, and Vocabulary	Jot Thoughts RallyTable		Conduct research to define issues and challenges, Cite data, evidence, and information to support your evaluation of an issue.	Ecology Essay
March	Native vs. nonnative species	HS-LS4-5	Native Non-native Invasive	Reading, Annotating, and Vocabulary	Jot Thoughts		Conduct research to define issues and challenges, Cite data, evidence, and information to support your	Invasive Species Essay

							evaluation of an issue.	
April	Surface Hydrology Water quality / Water management	HS-ESS2-2 HS-ESS2-5	Infiltration Evapotranspiration Runoff Floodplain Discharge	Reading, Annotating, and Vocabulary	Jot Thoughts Mix-Pair-Share		Predictions, Cite evidence and information to support your hypothesis.	Surface Hydrology Project
May	Environmental Conservation - Human Activity	HS-LS4-6 HS-LS2-7 HS-ESS2-2 HS-ESS3-1 HS-ESS3-2	Environment Conservation Renewable Resource Non-renewable Resource Point Source	Reading, Annotating, and Vocabulary	Jot Thoughts Mix-Pair-Share			
June	Finish Environmental Conservation - Human Activity	HS-LS4-6 HS-LS2-7 HS-ESS2-2 HS-ESS3-1 HS-ESS3-2		Reading, Annotating, and Vocabulary	Jot Thoughts		Conduct research to define issues and challenges, Cite data, evidence, and information to support your evaluation of an issue.	Environmental Remedy Essay