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| SISD Unit Bundles of TEKS/SEs and Pacing Guide – Environmental Science 2014-2015 |
| Ecology – How Ecosystems Work |
| **Estimated Time 10 days** | **TEKS****4C, 4D, 6C, 6E, 7D, 8C, 9E** | **Essential Skills and Concepts** Life Depends on the SunWhat Eats WhatCellular Respiration: Burning of FuelEnergy TransferCarbon CycleNitrogen CyclePhosphorus CycleEcological Succession**Academic Vocabulary** Photosynthesis, Producer, Consumer, Decomposer, Cellular Respiration, Food Chain, Food Web, Trophic Level, Carbon Cycle, Nitrogen-fixing Bacteria, Nitrogen Cycle, Phosphorus Cycle, Ecological Succession, Primary Succession, Secondary Succession, Pioneer Species, Climax Community | **Critical Learning Activities** Reading: Energy Flow in Ecosystems, The Cycling of Matter, How Ecosystems ChangeWorksheets: Study GuideMap Skills: Global WarmingLab: Modeling Biomagnification, Pyramid Building, Best Food for Yeast, Make Every Breath Count. | **Resources**PowerPresentations: 5.1,5.2, 5.3, Videos, Textbook, Internet, Visuals |
| Ecology - Biomes |
| **Estimated Time 10 days** | **TEKS****4B, 9E** | **Essential Skills and Concepts** Biomes and VegetationBiomes and ClimateTropical RainforestTemperate RainforestTemperate Deciduous ForestTaigaSavanna and Tropical Seasonal ForestTemperate GrasslandsChaparralDesertTundra**Academic Vocabulary**  Biome, Climate, Latitude, Altitude, Tropical Rainforest, Emergent Layer, Canopy, Epiphyte, Understory, Temperate Rainforest, Temperate Deciduous Forest, Taiga, Savanna, Temperate, Grassland, Chaparral, Desert, Tundra, Permafrost | **Critical Learning Activities** Reading: What is a Biome?, Forest Biomes, Grassland, Desert, and Tundra BiomesWorksheet: Study GuideMap Skills: African BiomesLabs: Microclimates, Modeling Biomes, Identifying Sustainable Rainforest Products, Plant Adaptations | **Resources** PowerPresentations: 6.1,6.2, 6.3, Videos, Textbook, Internet, Visuals |