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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 Sun  What Eats What  Cellular Respiration: Burning of Fuel  Energy Transfer  Carbon Cycle  Nitrogen Cycle  Phosphorus Cycle  Ecological 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 Change  Worksheets: Study Guide  Map Skills: Global Warming  Lab: 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 Vegetation  Biomes and Climate  Tropical Rainforest  Temperate Rainforest  Temperate Deciduous Forest  Taiga  Savanna and Tropical Seasonal Forest  Temperate Grasslands  Chaparral  Desert  Tundra  **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 Biomes  Worksheet: Study Guide  Map Skills: African Biomes  Labs: Microclimates, Modeling Biomes, Identifying Sustainable Rainforest Products, Plant Adaptations | **Resources**  PowerPresentations: 6.1,6.2, 6.3, Videos, Textbook, Internet, Visuals |