Curriculum Map Template

Brian K. Wolff MASD High School Environmental Science (11th & 12th Grade)

Week	Unit Name (Topic)	Lesson	Objectives	Standards and Eligible Content	Resources	Assessments	Adaptations Modifications
1 2	Introduction	Nature & Methods of Science	Describe Earth as a network of systems and connections Explain how Earth is both a closed and open system	Explain and apply scientific and technical knowledge Apply process knowledge to make and interpret observations Know & use technical design process to solve problems	In house design PowerPoint	Class discussion Section Quizzes Topic Writing Prompts Class activities	As needed: Per IEP or 504
3 4 5 6	Meteorology	Atmosphere & Clouds Pressure & Winds Forecasting Weather & Climate	Diagram layers of the atmosphere Describe atmospheric layer characteristics Apply atmospheric layers importance to life Model the movement of energy in ecosystems Compare and contrast natural cycles	Describe Earth's features & processes Explain the behavior & impact of Earth's water systems Explain the role of the water cycle Relate energy sources & transfers to heat & temperature Describe basic elements of Meteorology Explain information technologies of encoding, transmitting, receiving, & decoding Apply computer software to solve specific problems Explain the flows of energy and matter within an ecosystem			
7 8 9 10 11	Geology	Minerals & Rocks Weathering & Erosion Tectonic forces Soil Formation	Model the movement of energy in ecosystems Compare and contrast natural cycles Identify conditions that lead to changes in biomes	Describe Earth's features & processes Know that raw materials come from natural resources Examine the renewability of resources Explain natural resource distribution Investigate how agriculture sciences has recognized various soil types found in PA			

				Explain how people use raw materials & natural resources Identify & explain principles of force & motion			
12 12 14 15	**Hydrology**	Freshwater Oceanography	Explain why fresh water is a valuable resource Analyze how salinity varies according to the water type	Describe Earth's features & processes Identify & use elements of scientific inquiry to solve problems Identify & explain principles of force & motion Explain the behavior & impact of Earth's water systems Explain effects of water on organisms in a watershed Explain biological diversity Explain the role of the water cycle within a watershed Explain & describe characteristics of a wetland Describe the impact of watersheds & wetlands on people			
16 17 18	Global Biomes	Terrestrial Biomes Aquatic Biomes	Describe regions of the biosphere Identify and describe the regions of the Earth Identify the locations of different biomes Hypothesize factors that inhibit species survival in biomes				

***Big Idea page will be added**