PERSONALIZED LEARNING MENU: LIFE SCIENCE STANDARD/BIOMES   Student Name_____

Academic Goal_____ Career Goal_____

-Life Science Graduation Competency MS5: Students will apply scientific and engineering practices to understand and analyze the characteristics, functions, and behavioral interactions within an ecosystem.

Performance Indicator E. Create a tool to provide information of the characteristics of the Earth's major terrestrial biomes and aquatic communities.

-Georgia Standards of Excellence S7L4d: Ask question to gather and synthesize information from multiple sources to differentiate between Earth's major terrestrial biomes (tropical rain forest, savanna, temperate forest, desert, grassland, taiga, and tundra) and aquatic (freshwater, estuaries, and marine) ecosystems. (clarification statement: Emphasis is on the factors that influence patterns across biomes such as **climate, availability of food and water, and location**)

Vocabulary: Biome   Climate   Taiga   Deciduous Forest   Rainforest   Desert
Terrestrial   Temperate   Tundra   Grassland   Savana

DOK # 1	DOK #2	DOK #3	DOK #4
Recall & Reproduction	**Skills & Concepts**	**Strategic Thinking**	**Extended Thinking**
L. Target: Knowledge	**L. Target: Reasoning**	**L. Target: Performance Skill & Product**	**L. Target: Product**
Engage/Explore	**Explore/Explain**	**Explain/Elaborate**	**Elaborate/Extend**
Learning Targets: K-1: I can identify the earth's major terrestrial biomes. **Pre-Assessment_____** K-2: Identify the characteristics of Earth's major terrestrial biomes. This includes types of organisms, climate, and location. **Pre-Assessment_____**	**Learning Targets:** R-1: I can ask questions and conduct research from multiple resources related to the characteristics of the earth's major terrestrial biomes and aquatic ecosystems.	**Learning Target:** PS-1: I can create a tool to provide information of the characteristics of the Earth's major terrestrial biomes and aquatic communities.	**Learning Target:** P-2: I can create a tool to provide information about how humans impact the biodiversity of Earth's major terrestrial biomes and aquatic communities.

Activities:

1. Complete KIMS for these words (Biome, Terrestrial, Aquatic, Climate, Temperate)
2. Using Terrestrial PPT, complete Biome ID Chart
3. Using Terrestrial PPT, complete Major Terrestrial Biomes Map
4. Using Completed chart, create a Terrestrial Biome Precipitation Graph (Biome on x-axis, precipitation in cm's on y-axis)

Assessment Results

K1: _____
K2: _____

Activities:

1. (Choose a continent on earth to focus on for this activity) Create a list of 10 questions related to the characteristics of the terrestrial biomes. (climate, availability of food and water, location, etc)
2. Conduct research to answer questions.

Suggested Resources:

NASA: https://bit.ly/NASAbiomes

Google Earth
https://www.google.com/earth/

UC Berkley
http://bit.ly/biomesite

Activities:

1. Create a tool to provide information of the characteristics of the Earth's major terrestrial biomes.

Activities:

Optional

1. Create a tool to provide information about how humans impact the biodiversity of Earth's major terrestrial biomes.