**Notes on ES Essential Standards: “Biomes in NC: Biotic, Abiotic, and Biodiversity”**

**Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EEn.2.7.1 Explain how abiotic and biotic factors interact to create the various biomes in NC.**

**EEn. 2.7 Explain how the lithosphere, hydrosphere, and atmosphere individually and collectively affect the biosphere.**

Define the terms:

* Biomes
* Biodiversity
* Abiotic
* Biotic

List the three biomes (regions) in NC:

What abiotic and biotic factors interact to create the various biomes in NC?

Give a specific example about how abiotic and biotic factors affect the biodiversity of an area?

Define the terms:

* Symbiosis
* Mutualism
* Commensalism
* Parasitism

**EEn.2.7.2 Explain why biodiversity is important to the biosphere.**

What might be meant by the “cycle of life” within a biosphere in terms of biodiversity? Think in terms of purpose of various plants and animals … things like food source and pollinators.

What would happen with a lack of biodiversity within a biosphere?

**EEn.2.7.3 Explain how human activities impact the biosphere.**

What 4 things do humans do to impact the biosphere and what is the ultimate affect on the biosphere?