Name:_____ Date:_____

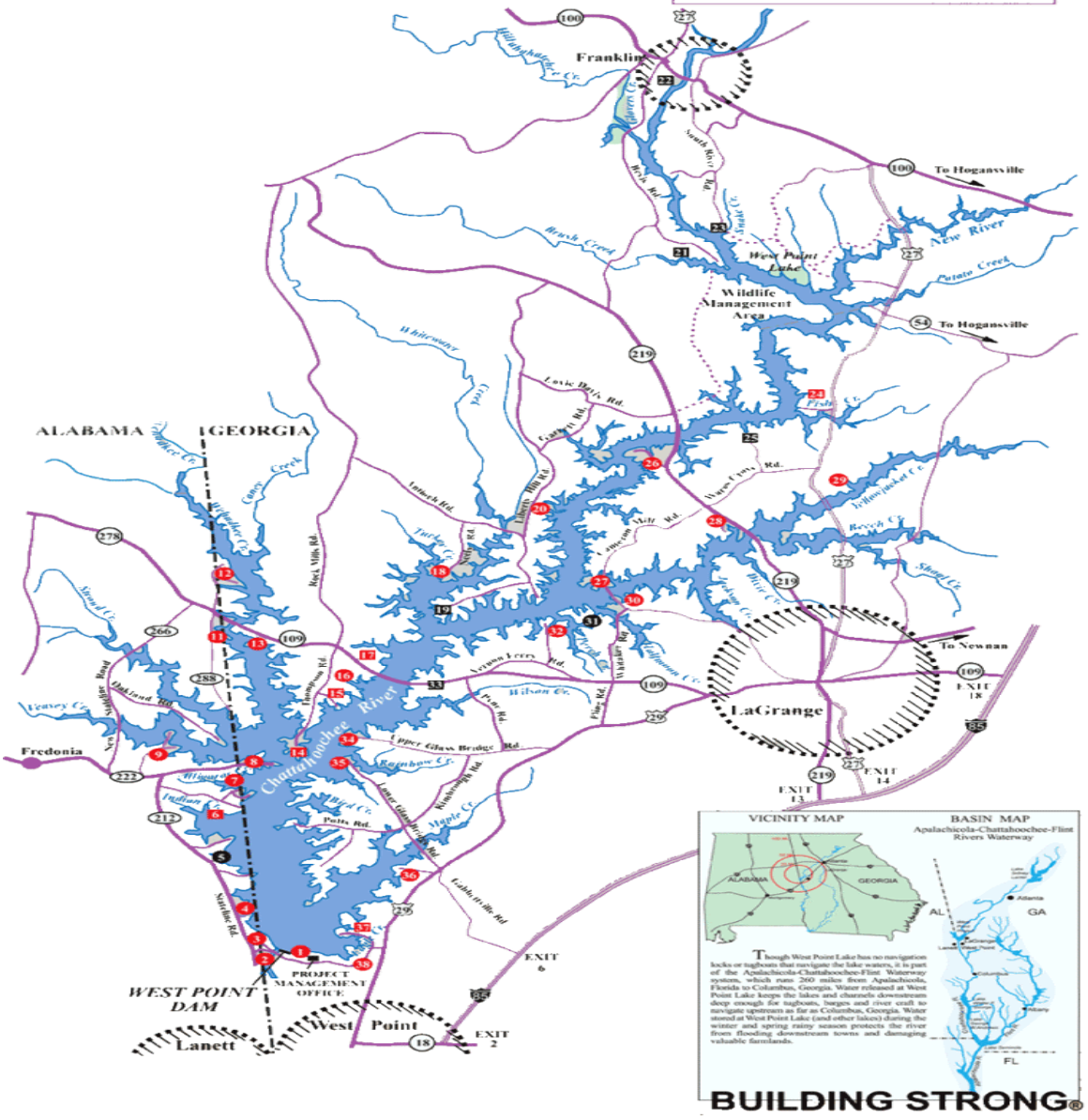
Standard(s):

SEV1. Obtain, evaluate, and communicate information to investigate the flow of energy and cycling of matter within an ecosystem.

e. Plan and carry out an investigation of how chemical and physical properties impact aquatic biomes in Georgia.

(*Clarification statement*: Consider the diverse aquatic ecosystems across the state such as streams, ponds, coastline, estuaries, and lakes.)

Phenomenon: The productivity of West Point Lake is affected by its chemical and physical properties.



Name:_____ Date:_____

Group Performance:

1. Describe the importance and list an example of the following aquatic biomes found in Georgia.
    a. **Swamp-** absorbs excess/flooding waters from rivers and filters out the waste and pollution; example: Okefenokee swamp

    b. **Streams-**

    c. **Ponds-**

    d. **Coastline-**

    e. **Estuaries-**

    f. **Lakes-**

    g. **Rivers-**

    h. **Mangrove-**

    i. **Rocky Shores-**

    j. **Coral Reefs-**

    k.

2. Develop and ask questions to obtain information about the ***characteristics (abiotic factors)*** of the aquatic biomes in Georgia.

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3. Obtain information about how ***chemical and physical properties*** impact aquatic biomes in Georgia.

4. Explain how ***pollution*** and ***eutrophication*** and other environmental problems can affect West Point lake.

Individual Performance:

5. Construct an explanation of the effects that ***chemical*** *and* ***physical properties*** have on aquatic biomes in Georgia. Explain how this relates to the productivity of West Point Lake.

6. Design a plan of action (solution) that would help boost the productivity of West Point lake from environmental problems such as pollution and eutrophication.

Name:__________________________ Date:__________________