Name: Ellen Tate (part of group with Greg, Natalie, Diane)

LESSON PLAN

Lesson Topic: Movement as a Sense of Place Grade Level: 9

Broad-Based Theme: **Place as Text in the Most Southern Place on Earth**				
Generalizations (3 or 4): 1. Identify shapes: triangles, rectangles, trapezoids, parallelograms within a composite figure. 2. Understand the concept of a composite figure and its area. 3. Compute the area of each shape using the correct formula. 4. Utilize historical data and diagrams to solve real world area problems.				
Guiding Questions (GQ): 1. What engineered structure was used to control the movement of the Mississippi River during a flood? 2. What was the result of the failure of this structure at Mounds Landing, MS during the 1927 flood in terms of velocity of water? 3. What was the design of the new levee after the flood? 4. Use the area of a cross-section of the levee to help you understand the magnitude of the soil movement required to build a new levee.				
Lesson Plan Objective(s): Utilize a historic diagram of a Sept. 1927 levee plan to discuss composite figures. Identify the individual geometric shapes in the composite levee shape. Compute the area of each shape using its correct formula. Calculate the area of the whole cross-section. Summarize by discussing how this total area can be used to find the volume of	Gen/GQ # 2,4/1 1/3 3,4/3 3,4/3 4/4	Procedure: A. Introduction/Motivation Background info on Mississippi River and Flood of 1927 Discuss conflict between river and man B. Study/Learning Activities Review polygon area formulas Worksheet copy of levee plan Draw lines to divide composite shape into	Materials/Resources Book – Rising Tide by John M Barry Internet research and pictures Historical diagram worksheet. FCAT formula sheet	Evaluation related to objectives Worksheet complete and correct Teacher observed evaluation of groups Group report Test on area of polygons and composite figures

varying lengths of levee construction.		individual polygons Group work to figure area and total area Group report on its methods of solving C. Culmination Discuss how area can be used to find volume of a section (length) of levee. Assign each group a different volume problem. D. Follow-up Discuss magnitude of building levees along Mississippi River. (Massive Movement of Soil)		