Standards Project

Name: _________________________________________________________________

Name of Standard: _____________________________________________________

Assignment Description
TCs will sign up to examine one of the five NCTM Content Standards throughout the three first grade bands (PK – 2, 3 – 5, and 6 – 8). (I would like an even distribution of TCs covering each Content Standard.) To fully examine the Standard and how it progresses throughout the grade bands (i.e., the development of mathematical thinking), I expect TCs to:

- Clearly explain the Standard and expectations/objectives for all three grade bands.
- Describe clearly how the expectations/objectives translate into classroom practice.
- Interview (and observe if you would like) a teacher from each of the grade bands in order to learn about classroom activities that they think work best in addressing these objectives and Standard.
- Of the activities that they learn from these interviews, choose one per grade band. Provide a detailed description of the three activities, giving step-by-step procedures for how to implement them each. Make certain to explain why these activities appropriately meet the given objectives and Standard. Each of the activities must be aligned with SC Standards and indicators and Common Core Standards as well as with the NCTM Standard and objectives.
- Because “the mathematical Content and Process Standards…are inextricably linked,” for each of the activities, describe how the Process Standards are integrated into the three activities (NCTM, 2000, p. 7).

TCs are expected to submit both a hard and electronic copy of their projects. At the conclusion of the semester, I will compile a class set of the activities for each TC. The intent of this project is to familiarize TCs with the National Standards, SC Standards, and the Common Core Standards; to help TCs see how children develop their understanding of mathematical content from preschool through middle school; and to create a practical collection of detailed activities that span the Content Standards and grade bands. Projects are to be completed and submitted during the scheduled final exam time (Section 001: December 13th 8:00 am – 11:00 am; Section 003: December 8th 12 noon – 3:00 pm).

At the completion of our class coverage of a given content standard (number & operations, measurement, geometry, data analysis & probability, and algebraic thinking), the group which was assigned to that content area will teach a lesson on the development of student thinking from PK-8 in that given area. During the lesson, the group will demonstrate a sample activity or lesson from each of the three grade bands (early childhood, elementary, and middle), exemplifying to their classmates the development of mathematical thinking within the given content area. While not everyone's lessons will be chosen from the group, each of the group members should contribute equally in the facilitation of the lessons. This will require some out-of-class preparation. Upon completion of the class demonstrations, each group member will assess the contributions of the other group members. Both the demonstration and peer assessment will be figured into the each TC’s Standards Project grade.

Note that while not indicated on the schedule, TCs should (1) work on this project throughout the semester and (2) read chapters three through six in the Principles and standards for school mathematics.

Assignment Criteria
Your work will be evaluated on how well you have identified and addressed each of the criteria listed below.