THE 5 E'S MODEL FOR THE TEACHING OF MATHEMATICS IS BASED ON THE CONSTRUCTIVIST APPROACH TO LEARNING. LEARNING NEW CONCEPTS OR ATTEMPTING TO UNDERSTAND SOMETHING FAMILIAR IN GREATER DEPTH, IS NOT A LINEAR PROCESS. THEREFORE, SUGGESTED TIME SLOTS FOR EACH OF THE STAGES WITHIN THE MODEL MAY VARY ACCORDING TO THE ACTIVITY PLANNED FOR THE INSTRUCTIONAL DAY.

90 MINUTE MODEL *Suggested time allotments may vary*	5 E's	Questions for Planning	Planning/Observation/Notes
10 minutes	Engagement (Focus) ❑ *Objective stated written/orally ❑ Focuses students on key skills ❑ Defining a problem ❑ Literature experience ❑ Problem of the Day (POD)	What should students know and do as a result of the lesson? *Students will* review LCD *in order to* add fractions.	
20 minutes	Exploration (Teach) ❑ Cooperative grouping ❑ Review homework ❑ Whole class ❑ Use of manipulatives ❑ Use of technology (calculators, software, internet, etc.) ❑ Demonstration/modeling of concepts ❑ Questioning strategies	What will students do together (whole group and/or small group) to use the new concepts or skills? What is your motivating task? What prior knowledge will they need to use in the exploration of the task?	Students will a video from www.unitedstreaming.com that covers LCD and adding fractions. The video is added as an attachment.
25 minutes	Explanation (Teach) ❑ Vocabulary development and review ❑ Guided practice ❑ Independent practice ❑ Clarification of misconceptions	How will you aid students in constructing meaning of new concepts? How will you introduce new skills or procedures? What vocabulary is important for understanding the concepts?	I will use the web site http://nlvm.usu.edu/en/nav/frames_asid_106_g_2_t_1.html Because it has the visual representation of the fractions.
30 minutes	Elaboration (Practice/Apply) ❑ Flexible grouping ❑ Independent activities (e.g., worksheet) ❑ Centers ❑ Word problems ❑ Problem of the Week (POW) ❑ Games	What opportunities will students have to use the new skills and concepts in a meaningful way? How will students expand and solidify their understanding of the concept and apply it to a real-world situation? How will students demonstrate their mastery of the essential learning outcomes?	In pairs, students would work on textbook problems and then the class would use the web site http://www.webmath.com/addfract.html to check answers and the steps to solve each problem.
5 minutes	*Evaluation (Assess) ❑ Journal ❑ Student centered evaluation ❑ Focus for next lesson ❑ *Closure/review of daily activity	How will you assist students in reflecting upon what they learned today? How will you ensure that all students have mastered the identified learning indicators? How will you assess their learning? What homework will be assigned to help students practice, prepare, or elaborate on a concept or skill taught?	There is a practice online test on the following site: http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-829631-5&chapter=6&headerFile=4&state=

*Indicates part of every lesson