|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name:** | **David Young** | **Subject:** | **Linear Systems and Statistics** | **Week of:**  | **August 19, 2013** |
| **Lesson Plans** |
|  | **Monday:** | **Tuesday:** | **Wednesday:** | **Thursday:** | **Friday:** |
| **Statement of** **Objective(s)/****Think, Know,****Do(start with a verb)** | Students will develop class norms and expectations. | Students will use matrices to organize data.[ LSM.1.LSS.1/ N.VM.6] | Students will use matrices to organize data. [ LSM.1.LSS.1/ N.VM.6] | Students will generate a definition for scalar multiplication of matrices and apply scalar multiplication to geometric figures to produce dilations. [ LSM.1.LSS.2/ N.VM.7] | Students will generate a definition for matrix addition and subtraction, and apply matrix addition and subtraction to geometric figures to produce translations.[ LSM.1.LSS.2/ N.VM.7] |
| **Anticipatory****Set/Opening** | 3 Truths and a Lie | Review the class norms and expectations that were developed in class the previous day. | Students share organizational methods use in approaching the problem they worked yesterday (choose students to share based on observations and exit slips) | Students will examine two geometric figures (dilations) and determine their relationship. | Students will examine two geometric figures and determine their relationships (translations). |
| **Learning****Activities** | Student Survey (include email addresses for students and parents)Answer the question: What type of learning environment helps you to be a successful student?- Use answers to lead into discussion of norms and expectations for class | Word Problem Worksheet 1 (students can work with a partner on this) | Look at Word Problem Worksheet 1 with matrices- What is a matrix and how does it help with the organization of this data?Demonstrate entering matrices in the calculator and allow students to complete problem with matrices- Use demographic data from class to create matrices (male/female, grade levels, SLC, etc.)- Develop use of matrix vocabulary through discussion of student matrices: Dimensions, entries/elements, row, columns, etc. | Use Geometric Figures from the Opening problem and the last question from Word Problem Worksheet 1 to begin a discussion of scalar multiplication of matricesStudents will work with a partner to write a definition of scalar multiplication in their own words - then share with another group and the class | Use Geometric Figures from the Opening problem and the total sold questions from the Word Problem Worksheet 1 to begin a discussion of addition and subtraction of matricesStudents will work with a partner to write a definition of addition and subtraction of matrices in their own words - then share with another group and the class  |
| **Assessment of****Student****Understanding****/Closure** | Students will turn in 3 Truths about themselves, the survey answers, and at least one statement that reflects an understanding of norms/expectations for a successful class | Exit Slip: What strategies did you find helpful when working these problems? | Observation of students working practice problems | Navigator Quiz on scalar multiplication, organizing data, and matrices terminology | Homework Assignment (Worksheet) |