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| **Name:** | **David Young** | | | **Subject:** | **Linear Systems and Statistics** | | | **Week of:** | **September 16, 2013** | |
| **Lesson Plans** | | | | | | | | | | |
|  | | **Monday:** | **Tuesday:** | | | **Wednesday:** | **Thursday:** | | | **Friday:** |
| **Statement of**  **Objective(s)/**  **Think, Know,**  **Do(start with a verb)** | | Students will apply matrix operations to transformations of geometric figures through a project  Students will solve word problems in a way that makes sense to them | Students will write augmented matrices to represent word problems. | | | Students will solve systems of equations using augmented matrices | Students will solve systems of equations using augmented matrices | | | Students will solve systems of equations using augmented matrices |
| **Anticipatory**  **Set/Opening** | | Bellringer: Write linear equations in standard form | Bellringer: Solve a system of equations using elimination (linear combination) | | | Bellringer: Return exit slip from yesterday to a new person who  will write an augmented matrix for the problem | Bellringer: Sentence frames activity with systems of equations. Teacher will provide example and a template, if needed. | | | Review answers to homework problems. Go over any questions students may have. |
| **Learning**  **Activities** | | Finish student presentations of projects  Discuss student work from last Thursday and Friday  Use to guide discussion on solving systems of equations  Students will present solutions and explain their reasoning process to the rest of the class | Use the word problems worksheet from last week to introduce setting up an augmented matrix for a system of equations | | | Use word problems worksheet from last week to introduce setting up an augmented matrix for a system of equations  Practice solving augmented matrices using row operations | Use the word problems worksheet from last week to introduce setting up an augmented matrix for a system of equations  Practice solving augmented matrices using row operations | | | Students will take an nSpire quiz over augmented matrices |
| **Assessment of**  **Student**  **Understanding**  **/Closure** | | Presentations of student projects and student explanation of connection of chosen shape to SLC or themselves.  Presentation of student solutions to word problems | Exit slip: Create a new word problem that can be solved using systems.  Homework: writing augmented matrices given word problems (WS) | | | Exit slip: Student will receive word problem they created yesterday with the augmented matrix created in the bellringer to solve as their exit slip  Homework: Solve the systems from last night’s worksheet (1st half) | Exit slip: Given an augmented matrix and a series of row operations for solving a system, describe in words using complete sentences the steps that were taken to solve the system.  Homework: 2nd half of yesterday’s worksheet | | | nSpire quiz  Review answers in class if time allows |