**Basic Algebra II Weekly Plan Dec. 7 to Dec. 11, 2015**

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| Day | In Class | Assignment |
| Monday  Dec. 7th  N.VM.6  N.VM.8  N.VM.9  N.VM.10 | Today’s Goal: To learn about multiplying matrices.   * Matrix Product * Dimensions of products * Multiplying matrixes * Products of square matrixes | Homework 4-2 A  p.257, #2-10 |
| Tuesday  Dec. 8th  N.VM.6  N.VM.8  N.VM.9  N.VM.10 | Today’s Goal: To learn about multiplying matrices.   * Matrix Product * Dimensions of products * Multiplying matrixes * Products of square matrixes | Homework 4-2 B  p.257, #11-13 and #15-18 |
| Wednesday  Dec. 9th  N.VM.10  N.VM.12  G.CO.5 | Today’s Goal: To learn about using matrices to transform geometric figures.   * Representing geometric figures using matrices. * Translations * Dilations * Reflections * Rotations | Homework 4-3 A  p.265, #2-5 |
| Thursday  Dec. 10th  N.VM.10  N.VM.12  G.CO.5 | Today’s Goal: To practice using matrices to transform geometric figures.   * Translations | Homework 4-3 B  p.265, #6-9 |
| Friday  Dec. 11th | Today’s Goal: To excel on the chapter 4 quiz.   * Quiz 4-1 to 4-3 |  |

**Common Core Standards**

**N.VM.6:** Use matrices to represent and manipulate data, e.g., to represent payoffs or incidence relationships in a network.

**N.VM.8:** Add, subtract, and multiply matrices of appropriate dimensions.

**N.VM.9:** Understand that, unlike multiplication of numbers, matrix multiplication for square matrices is not a commutative operation, but still satisfies the associative and distributive properties.

**N.VM.10:** Understand that the zero and identity matrices play a role in matrix addition and multiplication similar to the role of 0 and 1 in the real numbers. The determinant of a square matrix is nonzero if and only if the matrix has a multiplicative inverse.

**N.VM.12:** Multiply a vector (regarded as a matrix with one column) by a matrix of suitable dimensions to produce another vector. Work with matrices as transformations of vectors.

**G.CO.5:** Given a geometric figure and a rotation, reflection, or translation, draw the transformed figure using, e.g., graph paper, tracing paper, or geometry software. Specify a sequence of transformations that will carry a given figure onto another.