**Math 2**

**Unit 7/8 – Geometric Figures/Similarity and Right Triangle Trig**

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| Day | Date | Topic | Classwork |
| 1 | Fri.  11/30 | Unit 7 – Various Geometry Topics | Pages 6, 11, 13, 20, 21, 23 |
| 2 | Mon.  12/3 | Unit 7 – Various Geometry Topics | Pages 29, 31-34, 36, 41-42 |
| 3 | Tues.  12/4 | Describing the essential features of a dilation.  Examining proportionality relationships in triangles that are known to be similar to each other based on dilations.  **in tria** | 6.1 Photocopy Faux Pas  Pages 1-6  6.2 Triangle Dilations  Pages 7-14 |
| 4 | Weds.  12/5 | Comparing definitions of similarity based on dilations and relationships between corresponding sides and angles. | 6.3 Similar Triangles and Other Figures  Pages 15-22 |
| 5 | Thurs.  12/6 | Examining proportionality relationships of segments when two transversals intersect sets of parallel lines, | 6.4 Cut by a Transversal  Pages 23-28 |
| 6 | Fri.  12/7 | **Quiz Unit 8**  Applying theorems about lines, angles and proportional relationships when parallel lines are crossed by multiple transversals. | 6.5 Measured Reasoning  Pages 29-34 |
| 7 | Mon.  12/10 | Applying understanding of similar and congruent triangles to find the midpoint or any point on a line segment that partitions the segment into a given ratio. | 6.6 Yard Work in Segments  Pages 35-42 |
| 8 | Tues.  12/11 | Using similar triangles to prove the Pythagorean theorem and theorems about geometric means in right triangles. | 6.7 Pythagoras by Proportions  Pages 43-48 |
| 9 | Weds.  12/12 | Developing an understanding of right triangle trigonometric relationships based on similar triangles. | 6.8 Are Relationships Predictable?  Pages 49-54 |
| 10 | Thurs.  12/13 | Solving for unknowns in right triangles using trigonometric ratios. | 6.10 Finding the Value of a Relationship  Pages 55-62 |
| 11 | Fri.  12/14 | Examining the relationship of sides in special right triangles. | 5.5 Special Rights  Pages 63-68 |
| 12 | Mon.  12/17 | Setting up and solving right triangles to model real world contexts. | 6.11 Solving Right Triangles Using Trig Relationships  Pages 69-74 |
| 13 | Tues.  12/18 | **UNIT 8 TEST** | **UNIT 8 TEST** |

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**Hot Lunch Tutorials: Tues (B) and Thurs (A)**