Agendas for the Week: *February 4 – February 8, 2013 Geometry Honors – 5th Period*

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|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
|  | **Objective(s): SWBAT****\***define the tangent ratio for an acute angle.**\***solve right triangle problems by correct selection and use of the tangent ratio.**NGSSS:**MA.912.T.2.1 Define and use the trigonometric ratios in terms of angles of right trianglesCognitive complexity: Moderate**New Vocabulary:**Tangent | **Objective(s): SWBAT****\***define the sine and cosine ratios for an acute angle.**\***solve right triangle problems by correct selection and use of the sine and cosine ratios.**NGSSS:**MA.912.T.2.1 Define and use the trigonometric ratios in terms of angles of right trianglesCognitive complexity: Moderate**New Vocabulary:**Sine, Cosine | **Objective(s): SWBAT**\* solve problems involving angles of elevation and depression.\* use angles of elevation d depression to find the distance between two objects.**NGSSS:** LA.1112.1.6.2 The student will listen to, read, and discuss familiar and conceptually challenging text;MA.91.G.5.4 Solve real-world problems involving right triangles. Cognitive Complexity: High**New Vocabulary:**Angle of elevationAngle of depression | **Objective(s): SWBAT**\*determine the geometric mean between two numbers.\* state and apply the Pythagorean theorem and its converse.\* determine the lengths of two sides of special triangles when the third length is known. **NGSSS:**MA.912.T.2.1 Define and use the trigonometric ratios in terms of angles of right trianglesCognitive complexity: ModerateLA.1112.1.6.2 The student will listen to, read, and discuss familiar and conceptually challenging text;MA.91.G.5.4 Solve real-world problems involving right triangles. Cognitive Complexity: High | **Test****Right Triangles & Trigonometry (8.1 – 8.4)** |
| P | **Engage****Find your opposite and adjacent friend. Students will work with these terms.**  | **Engage****Work as a class on the Gizmo “Sine & Cosine ratios”** | **Engage****What is in common? Students will discuss the terms elevation and depression.** | **Test Review****The teacher directs a review game.**  |
| **L** | **Explore****Students attempt to solve using the tangent ratio.** **Explain****Teacher explains using powerpoint with student help.** **Elaborate****Work as a class on the Gizmo “Tangent Ratio”** | **Explore****Students attempt to solve using the sine and cosine ratios.** **Explain****Teacher explains using powerpoint with student help.** **Elaborate****None. Students will instead take a Quiz on 8.1 – 8.4** | **Explore****Students use their knowledge to solve real world applications.****Explain****Teacher explains using powerpoint with student help.** **Elaborate****Students develop their own application example.**  |
| **A** |
| **N** | **Evaluate and Summary****Students complete an exit ticket prior to leaving.** **CW: TB p.306 # 1-9, p/309 # 19****HW: TB p.308-310 # 2-26 even, 29** | **Evaluate and Summary****Students complete an exit ticket prior to leaving.** **CW: TB p. 313 # 1-10, 13****HW: TB p. 314 – 316, #2-22 Evan** | **Evaluate and Summary****Students complete an exit ticket prior to leaving.** **CW: TB p.317-318 #1-7****HW: TB p. 318-319 #1-12** | **Evaluate and Summary****Students complete an exit ticket prior to leaving.** **HW: TB p.323-324 # 1-24** |
| **Resources:** | **ELMO, PPT, Internet (Gizmo)** | **ELMO, PPT, Internet (Gizmo)** | **PPT** | **PPT** |