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 triangles  Cognitive 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 triangles  Cognitive 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 elevation  Angle 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 triangles  Cognitive complexity: Moderate  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 | **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** |