Ms. Gentry's ~ Lesson Plans Week of: February 12th

	PRE-ALGEBRA 6TH	GEOMETRY 1ST , 2ND, 3RD , 7th	ALGEBRA II 4th
M O N D A Y	**Review of chapter 6 – Write fractions as decimals, estimation, multiplying and dividing fractions & decimals, solving equations involving fractions and decimals and measures of central tendency. Assign p. 322 14 - 48 evens or practice test**	Use the converse of the Pythagorean theorem to determine if a triangle is a right triangle. Classify triangles using the converse as an inequality. Assign page 444:6-12, 18-26, 35,36 G.SRT.8 use Pythagorean theorem to solve right triangles in applied problems.	Finish Classify direct, inverse and joint variation. Write equations for each and find values for one of the missing variables when others are known. Use to solve real world problems. Assign p. 307: 6-16,21-27, 30-33,37-41 A.CED.2 Create equations in two or more variables to represent relationships between quantities **Start graphing rational functions**
T U E S D A Y	**Chapter 6 TEST**	**Zoo Day** **Special right triangles** **Discover shortcuts in the 2 special right triangles by cutting a square and equilateral triangle. Use Pythagorean theorem to solve for side lengths and apply shortcuts. Work practice problems (do a couple on the assignment together) and if time allows - start on page 461: 3-20,27,28**	**Zoo Day Graph simple rational functions. Graph the parent function f(x) = 1/x. Identify asymptotes, domain and range. Compare graphs of other rational functions. Translate functions and again compare to parent function. Assign p. 313: 3-33 every 3rd (37,38- on graphing calculator) (not 24) F.IF.7d+ Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available and showing end behavior.**
W E D N E S D A Y	**Problem solving strategy: work problems backwards. Solve real world problems by doing operations in reverse. Review other problem solving strategies and use variety to solve problems. P. 331: 7-12**	**Trigonometry introduction! Soh-Cah-Toa! Use the tangent ratio to solve for missing side lengths. View through clinometer to understand how trig can be used in applications. Learn how to use calculator to perform trig operations.** G.SRT.8 Use trigonometric ratios and the Pythagorean theorem to solve right triangles in applied problems.	Graph general rational expressions. Use Geogebra to graph more complex rational functions. Identify asymptotes and end behavior. Assign p. 322: 3-10, 13-18 F.IF.7d+ Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available and showing end behavior.
T H U R S D A Y	**Geometry integration: Discover pi through measuring and ratios of circumference and diameter. Review terminology of circles and solve for missing measure when given one. Measure a variety of circular objects circumferences and diameters Assign p. 343 11-33**	Use the tangent ratio to solve for missing side lengths. View through clinometer to understand how trig can be used in applications. Learn how to use calculator to perform trig operations. Assign p 469 4-17,18-28 evens, 31,32 G.SRT.8 Use trigonometric ratios and the Pythagorean theorem to solve right triangles in applied problems.	**? Simplify rational expressions. Multiply and then simplify rational expressions. Work samples together. Assign p. 331 4-16 evens A.APR.7+ Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication and division by a nonzero rational expression: add, subtract, multiply and divide rational expressions.**

Ms. Gentry's ~ Lesson Plans Week of: February 12th

F R I D A Y	**Solve two step equations by using inverse operations and order of operations in reverse. Apply in real life problems.** **Assign page 336 12-32, 34-37**	Apply the sine and cosine ratios to solve for missing side lengths. Examine table of trig values to better understand and compare trig values. Choose appropriate trig function to solve right triangles. Assign page 477: 5-7, 10-21, 33-37 **G.SRT.8**	Simplify rational expressions. Multiply and then simplify rational expressions. Work samples together. Assign p. 331 4-16 evens A.APR.7+ Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication and division by a nonzero rational expression: add, subtract, multiply and divide rational expressions.