SUBJECT **Precalculus**	**1st NINE WEEKS** **August 27, 2012 - October 26, 2012**			Ms. Sapp A DAY
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Aug 27 **Day 1 Activities** **Summer Homework Test** **Functions REVIEW:** Parent Functions and their graphs. Possible scenarios **HW:**p.67 9 (a-n), 11-14; p.68 24 (a-f), 25 (a-f), 29 (a-d); p.69 34 (a-e)	Aug 28 Polynomial Functions	Aug 29 **Polynomial functions** Polynomials, add/subtract/mult./divide polynomials ***Hand out Journal #1** **HW:** Polynomial Functions Homework #1	Aug 30	Aug 31 **Polynomial Functions:** ***Bug Jumping Investigation" Activity*** Factoring polynomials, multiplicity, Rational/Irrational Root Theorems, **HW:** Polynomial Functions Homework #2
Sep 3 	Sep 4	Sep 5 **Polynomial Functions continued** **LIBRARY of functions** **(PREP FOR FRIDAY'S LTF LESSON)** Fundamental Theorem of Algebra , Complex Conjugate Roots Theorem, End Behavior, Graphs of polynomial functions, Transforming, and curve fitting **HW:** Polynomial Functions HW #3	Sep 6	Sep 7 **Piecewise Functions** **LTF Lesson** - Generic Function (Analysis of piecewise functions), Piecewise Functions **HW:** LTF Free Response Questions (#1 a-e, #2 a-e, LTF module 1 Quiz multiple choice questions
Sep 10 Power Functions	Sep 11 **Power Functions** Power Function Properties; multiply-multiply property, add-add property, add-multiply property ***Journal #1 Due - Hand out Journal #2** **HW:** Pre-Calculus Power Functions Homework; review activity we will do next class period	Sep 12	Sep 13 **Trig Functions Quiz** **Power Functions** ***"Kepler's Third Law" Activity - a look at the motions of the planets*** **HW:** Power Functions Homework Day 2 (d-h and "Visualizing indirectly proportional relationships")	Sep 14
Sep 17 **Power Functions** More applications of Power Functions **HW:** Power Functions Homework Day 3 and table ("Putting it all Together")	Sep 18	Sep 19  REVIEW "ketchup day" *Give room* **HW:** Exam Review (will be handed out today)	Sep 20	Sep 21 **TEST Unit 1** **Polynomial and Power Functions** **HW:** Polar coordinates self-taught lesson with supplemental worksheet
Sep 24 Rational Functions	Sep 25 **Rational Functions** Graphing Rational Functions Using RATEY ***Journal #2 Due - Hand out Journal #3** **HW:** RATEY worksheet #1 and #2 (includes oblique asymptotes)	Sep 26	Sep 27 **Rational Functions:** Graphing rational functions with Oblique Asymptotes ***"Stilettos are a Woman's Best Friend" Group Activity*** **HW:** Rational functions worksheet part II	Sep 28

Oct 1	Oct 2	Oct 3	Oct 4	Oct 5
Rational Functions: Graphing rational functions with Oblique Asymptotes **HW:** Rational Functions worksheet part III	**Exponential Functions**	**Exponential/Logistic Functions:** **LTF Lesson** - Bivariate Data ***(Rumor Has It - Class Activity)*** **HW:** Logistic Functions practice		**Unit Circle Quiz** **Exponential Functions** Radicals and Rational Exponents; patterns of exponential functions; properties of exponential functions; e the natural base **HW:** Radicals and Rational Exponents practice
Oct 8	Oct 9	Oct 10	Oct 11	Oct 12
	Rational and Radical Exponents Quiz **Exponential Functions:** Applications of Exponential Functions; the base e ***Journal #3 Due** **HW:** pp. 431-432 (#s 67-76, 85-88)		**Logarithmic Functions** **Logarithmic Functions:** Logarithmic Notes and Formulas & Particular Equations for Logarithmic Functions **HW:** pp. 442-443 (#s 1-80, odds only)	**Logarithmic Functions**
Oct 15	Oct 16	Oct 17	Oct 18	Oct 19
Logarithmic Functions Applications **LTF Lesson** - Discovering the Natural Log Function **HW:** pp. 444-445 (#s 81-106, evens only)		 REVIEW "ketchup day" *Give room* **HW:** Exam Review (will be handed out today)		**TEST Unit 2** **Exponential, Logarithmic, and Rational Functions** **HW:** Simplifying trig expressions self-taught lesson - refer to Oct 25th homework. Begin studying. No HW regarding this lesson due until Oct 30th; prepare for Socratic Seminar
Oct 22	Oct 23	Oct 24	Oct 25	Oct 26
	Socratic Seminar #1 - The Five Myths of the Great Financial Meltdown **HW:** FMA Review - will be handed out today		**Graphing a Sinusoidal Function Quiz** **1st 9 weeks district checkpoint** **HW:** Simplifying trigonometric expressions self-taught lesson - use p. 17 from packet (p. 446 from book) and pp. 65-68 from packet (pp. 447-450 from book) to study. Answer questions 9-27, odds only. Tutorial video uploaded to Ms. Sapp's website	