
MATH TIMETABLE 2011-2012

Pre-Calculus

1st six-weeks
14 Teaching Days

# of Days	Concept	Topics	TEKS
1	Functions and their Graphs	1.1 – Rectangular Coordinates	Pre-requisite for P.2(A)
1	Functions and their Graphs	1.2 – Graphs of Equations 1.5 – Analyzing Functions (Even/Odd functions only)	P.1(C)
1	Functions and their Graphs	1.3 – Linear Equations in Two Variables	P.1(A)
1	Functions and their Graphs	1.4 – Functions	P.1(B)
1	Functions and their Graphs	1.5 – Analyzing Graphs of Functions	P.1(D)
2	Functions and their Graphs	Review/Test Chapter 1A	P.1(A-D)
1	Functions and their Graphs	1.6 – A Library of Parent Functions	P.1(A)
1	Functions and their Graphs	1.7 – Transformation of Functions	P.2(A)
1	Functions and their Graphs	1.8 – Combinations of Functions: Composite Functions	P.2(B)
1	Functions and their Graphs	1.9 – Inverse Functions	P.2(B)
1	Functions and their Graphs	1.10 – Mathematical Modeling and Variation	P.3(C,D)
2	Functions and their Graphs	Review/Test Chapter 1B	P.2(A-B), P.3(D)
Every Day		Problem Solving	P.3(E) P.4(A-D) P.6(B)

MATH TIMETABLE 2011-2012

Pre-Calculus**2nd six-weeks
15 Teaching Days**

# of Days	Concept	Topics	TEKS
1	Polynomial and Rational Functions	2.1 – Quadratic Functions and Models	P.1(A,D) P.3(B)
2	Polynomial and Rational Functions	2.2 – Polynomial Functions of Higher Degree	P.3(A) P.1(D,E)
1	Polynomial and Rational Functions	2.3 – Polynomial and Synthetic Division	P.1(D)
1	Polynomial and Rational Functions	Quiz – 2.3	P.1(D)
1	Polynomial and Rational Functions	2.4 – Complex Numbers	P.1(D)
1	Polynomial and Rational Functions	2.5 – Zeros of Polynomial Functions	P.1(D) P.3(A,D)
2	Polynomial and Rational Functions	Review/Test – Ch 2A	P.1(A,D,E) P.3(A,B,D)
2	Polynomial and Rational Functions	Appendix A.4 – Simplify/Multiply/Divide/ Add/Subtract Rational Expressions	Pre-requisite for P.1(B,E)
2	Polynomial and Rational Functions	2.6 – Rational Functions	P.1(B,E)
2	Polynomial and Rational Functions	Review/Test - Ch 2B	P.1(B,E)
1	Polynomial and Rational Functions	Appendix A.4 – Simplifying Complex Fractions	Pre-requisite for P.1(B,E)
Every Day		Problem Solving	P.3(E) P.4(A-D) P.6(B)

MATH TIMETABLE 2011-2012

Pre-Calculus**3rd six-weeks
14 Teaching Days**

# of Days	Concept	Topics	TEKS
1	Exponential & Logarithmic Functions	3.1 – Exponential Functions and their graphs	P.1(A) P.2(A) P.3(B)
1	Exponential & Logarithmic Functions	3.2 – Logarithmic Functions and their graphs	P.1(A) P.2(A) P.3(B)
1	Exponential & Logarithmic Functions	3.3 – Properties of Logarithms	P.2(C)
1	Exponential & Logarithmic Functions	3.4 – Exponential and Logarithmic Functions	P.3(D)
2	Exponential & Logarithmic Functions	Review/Test – Ch3A	P.1(A) P.2(A,C) P.3(B,D)
1	Exponential & Logarithmic Functions	Unit Circle – The Paper Plate Project	P.3(A)
1	Trigonometry	4.1 – Radian and Degree Measure 4.2 – Trigonometric Functions	P.3(A)
2	Trigonometry	Review/Test – Unit Circle & 4.1/4.2	P.3(A)
2	Trigonometry	4.3 – Right Triangle Trigonometry	P.3(B)
2	Fall Final Exam	Review for Fall Final Exam	
Every Day		Problem Solving	P.3(E) P.4(A-D) P.6(B)

MATH TIMETABLE 2011-2012

Pre-Calculus**4th six-weeks
14 Teaching Days**

# of Days	Concept	Topics	TEKS
1	Trigonometry	4.4 – Trigonometric Functions of Any Angle	P.3(A)
1	Trigonometry	4.5 – Graphs of Sine and Cosine Functions	P.1(A-B) P.2(A)
1	Trigonometry	4.6 – Graphs of other Trigonometric Functions	P.1(A-B) P.2(A)
1	Trigonometry	4.7 – Inverse Trigonometric Functions	P.1(A-B) P.3(A)
1	Trigonometry	4.8 – Applications and Models	P.3(B)
2	Trigonometry	Review/Test Ch 4B	P.1(A-B) P.2(A) P.3(A)
1	Analytic Trigonometry	5.1 – Using Fundamental Identities 5.2 – Verifying Trigonometric Identities	P.2(C)
2	Analytic Trigonometry	5.3 – Solving Trigonometric Equations	P.2(C)
1	Analytic Trigonometry	5.4 – Sum and Difference Formulas 5.5 - Multiple-Angle and Product-to-Sum Formula	P.2(C)
2	Analytic Trigonometry	Review/Test – Ch 5	P.2(C)
1	Additional Topics of Trigonometry	6.1 – Law of Sines	P.3(E)
Every Day		Problem Solving	P.3(E) P.4(A-D) P.6(B)

MATH TIMETABLE 2011-2012

Pre-Calculus**5th six-weeks
15 Teaching Days**

# of Days	Concept	Topics	TEKS
1	Additional Topics of Trigonometry	6.2 – Law of Cosines	P.3(E)
1	Additional Topics of Trigonometry	Exploration of laws of sine and cosine (application problems)	P.3(E)
1	Additional Topics of Trigonometry	6.3 – Vectors in the Plane	P.6(A-B)
2	Additional Topics of Trigonometry	Review/Test – Ch 6	P.2(C) P.3(E) P.6(A-B)
1	Sequences, Series, and Probability	9.1 – Sequences and Series	P.4(A)
1	Sequences, Series, and Probability	9.2 – Arithmetic Sequences and Partial Sums	P.4(A-D)
1	Sequences, Series, and Probability	9.3 – Geometric Sequences and Series	P.4(A-D)
1	Sequences, Series, and Probability	9.5 – The Binomial Theorem	P.4(D)
1	Sequences, Series, and Probability	9.6 – Counting Principles 9.7 - Probability	b1
2	Sequences, Series, and Probability	Review/Test – Ch 9	P.4(A-D) b1
1	Topics in Analytic Geometry	10.2 – Introduction to Conics: Parabolas	P.5(A)
1	Topics in Analytic Geometry	10.3 – Ellipses	P.5(A)
1	Topics in Analytic Geometry	10.4 - Hyperbolas	P.5(A)
Every Day		Problem Solving	P.3(E) P.4(A-D) P.6(B)

MATH TIMETABLE 2011-2012

Pre-Calculus**6th six-weeks
16 Teaching Days**

# of Days	Concept	Topics	TEKS
2	Topics in Analytic Geometry	Review/Test – Ch 10A	P.5(A)
2	TAKS Testing		
1	Topics in Analytic Geometry	Conic Applications – Reflective light and sound	P.5(A-B)
1	Systems of Equations and Inequalities	7.1 – Linear and Nonlinear Systems of Equations	P.3(D)
1	Topics in Analytic Geometry	10.6 – Parametric Equations	P.5(C-D)
1	Topics in Analytic Geometry	10.7 – Polar Coordinates	P.2(C)
2	Topics in Analytic Geometry	Review/Test – Ch 10B	P.5(A-D) P.3(D) P.2(C)
2	Polynomials and Factoring	Advanced Factoring Practice – pg. A33	b1
2	Systems of Equations and Inequalities	7.3 - Multivariable Linear Systems	b1
2	Final Exam	Review for Final Exam Final Exam	
Every Day		Problem Solving	P.3(E) P.4(A-D) P.6(B)