Pacing Guide 2010-2011
Subject Pacing Algebra 2Q1(10-09)
Grade Level 9-12
Revised 5/25/10
Grading Period August-October, 2010

| Approximate <br> Time for Teaching Standards | Standard | Core Instructional Materials | Strategic Supplementary Materials | Assessment |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Mat'ls | District |
| 2 Weeks Aug. 9 - 20 | 1.0 Students solve equations and inequalities involving absolute value. <br> 2.0 Students solve systems of linear equations and inequalities(in two or three variables) by substitution, with graphs, or with matrices. | Chapter 1 - Foundations for Functions Sections 1(Example 1 only), $2,3,4,5,6$, Optional - Sections 8 and 9 SAVE 1-7 for unit 4 | Resource Books, Textbook, Practice Workbook, Review for Mastery Workbook | Placement Test |  |
| 3 Weeks <br> Aug. 23 - Sept. 10 |  | Chapter 2 - Linear <br> Functions <br> Sections 1, 2, 3, 4, 5, 8 (std. <br> 1.0) <br> Optional - Sections 6, 7, and 9 |  |  |  |
| 3 Weeks <br> Sept. 13 - Oct. 1 |  | Chapter 3 - Linear Systems <br> Sections 1, 2, 3, 6 <br> Optional - Sections 4 and 5 <br> Chapter 4 - Matrices <br> Optional - All sections |  |  |  |
|  |  |  |  | Cumulative Test |  |

Pacing Guide 2009-2010
Subject Pacing Algebra 2Q2(10-09)
Grade Level 10-12
Revised 5/25/10
Grading Period October-December, 2009

| Approximate <br> Time for Teaching Standards | Standard | Core Instructional Materials | Strategic Supplementary Materials | Assessment |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Mat'ls | District |
| $\begin{aligned} & 3 \text { Weeks } \\ & \text { Oct. } 4 \text { - Oct. } 22 \end{aligned}$ | 24.0 Students solve problems involving functional concepts, such as composition, difining the inverse function and performing arithmetic operations on functions. <br> 25.0 Students use properties from number systems to justify steps in combining and simplifying functions. | Unit 4 - Function Transformations, Operations and inverses Sections 1-7, 1-8, 1-9, 6-7, 68, 9-4, and 9-5 | Textbook, Resource materials, Practice Workbook, and Review for Mastery Workbook |  |  |
| 4 Weeks Oct. 25 - Nov. 17 | 5.0 Students demonstrate knowledge of how real and complex numbers are related both arithmetically and graphically. In particular, they can plot complex numbers as points in the plane. <br> 6.0 Students add, subtract, multiply, and divide complex numbers. <br> 8.0 Students solve and graph quadratic equations by factoring, completing the square, or using the quadratic formula. Students apply | Chapter 5 - Quadratic <br> Functions <br> Sections 1, 2, 3, 4, 5, 6, 9 <br> Optional - Sections 7 and 8 |  |  |  |



Pacing Guide 2009-2010

## Subject Pacing Algebra 2Q3(10-11)

Grade Level 10-12
Revised 5/25/10
Grading Period January - March 2010

| Approximate <br> Time for Teaching Standards | Standard | Core Instructional Materials | Strategic Supplementary Materials | Assessment |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Mat's | District |
| $\begin{aligned} & \hline 3 \text { weeks } \\ & \text { Jan. } 10-28 \end{aligned}$ | 11.0 Students prove simple laws of logarithms. <br> 11.1 Students understand the inverse relationship between exponents and logarithms and use this relationship to solve problems involving logarithms and exponents. <br> 11.2 Students judge the validity of an argument according to whether the properties of real numbers, exponents, and logarithms have been applied correctly at each step. <br> 12.0 Students know the laws of fractional exponents, understand exponential functions, and use these functions in problems involving exponential growth and decay. <br> 13.0 Students use the definition of logarithms to translate between logarithms in any base. <br> 14.0 Students understand and use the properties of logarithms to simplify logarithmic numeric expressions and to identify their approximate values. | Chapter 7 - Exponential and Logarithmic Functions Sections 1, 2, 3, 4, 5 (not inequalities), 6 Optional - Sections 7 and 8 |  |  |  |



Pacing Guide 2009-2010
Subject Pacing Algebra 2 Q4 (10-09)
Grade Level 9-12
Grading Period March - May 2010

| Approximate <br> Time for <br> Teaching <br> Standards | Standard | Core Instructional Materials | Strategic Supplementary Materials | Assessment |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Mat'ls | District |
| 3 Weeks | 21.0 Students apply the method of mathematical induction to prove general statements about positive integers. <br> 22.0 Students find the general term and the sums of arithmetic series and for both finite and infinite geometric series. <br> 23.0 Students derive the summation formulas for arithmetic series and for both finite and infinite geometric series. | Chapter 12 - Sequences and Series <br> Sections 1, 2, 3, 4, 5 (not mathematical induction) |  |  |  |

