Intermediate Algebra Pacing Guide

Unit 1: Graphing and Writing Linear Equations and Inequalities

Chapter 1: Algebra Basics

____1.1 Use Integers and Rational Numbers

____1.2 Add and Subtract Real Numbers

____1.3 Multiply Real Numbers

Ch. 1 Properties of Real Numbers Quiz   **Score_____**

____1.4 Apply Order of Operations

____1.5 Apply the Distributive Property

____1.6 Divide Real Numbers

____1.7 Find Square Roots and Compare Real Numbers

____1.8 Sets and Interval Notation

Ch. 1 Properties of Real Numbers Test   **Score_____**

Chapter 2: Linear Equations and Inequalities

____2.1 Solving Multi-Step Equations

____2.2 Solving Equations with Variables on Both Sides

____2.3 Rewriting Equations and Formulas

Ch. 2 Solving Linear Equations Quiz 1   **Score_____**

____2.4 Solving Inequalities Using Addition and Subtraction

____2.5 Solving Inequalities Using Multiplication and Division

____2.6 Solving Multi-Step Inequalities

____2.7 2.5 Solving Compound Inequalities

Ch. 2 Solving Linear Equations Quiz 2   **Score_____**

____2.8_Day 1 1.4_Day 1 Solving Absolute Value Equations

____2.8_Day 2 1.4_Day 2 Solving Absolute Value Equations

____2.9 2.6 Solving Absolute Value Inequalities

Ch. 2 Solving Linear Equations Test   **Score_____**

Intermediate Algebra Pacing Guide

Chapter 3: Linear Functions, Graphs, Equations and Inequalities

_____ 3.1_Day 1 Functions

_____ 3.1_Day 2 Functions

_____ 3.2_Day 1 Linear Functions

_____ 3.2_Day 2 Linear Functions

_____ 3.3 Function Notation

Ch. 3 Linear Functions, Graphs, Equations and Inequalities Quiz 1

Score_____

***End of First Quarter

_____ 3.4 Graphing Linear Equations in Standard Form

_____ 3.5_Day 1 Graphing Linear Equations in Slope-Intercept Form

_____ 3.5_Day 2 Graphing Linear Equations in Slope-Intercept Form

Ch. 3 Linear Functions, Graphs, Equations and Inequalities Quiz 2

Score_____

_____3.6 4.1 Writing Equations in Slope-Intercept Form

_____3.7 4.2 Writing Equations in Point-Slope Form

_____3.8 4.3 Writing Equations of Parallel and Perpendicular Lines

_____3.9 5.6 Graphing Linear Inequalities in Two Variables

Ch. 3 Linear Functions, Graphs, Equations and Inequalities Test

Score_____

Unit 1: Graphing and Writing Linear Equations and Inequalities Test

Score_____

Unit 1 Math Journal Entries

Score_____

Intermediate Algebra Pacing Guide

Unit 2: Systems of Equations and Polynomials

Chapter 4: Systems of Linear Equations and Inequalities

____4.1 Solving Systems of Linear Equations by Graphing

____4.2 Solving Systems of Linear Equations by Substitution

____4.3 Solving Systems of Linear Equations by Elimination

Ch. 4 Systems of Linear Equations and Inequalities Quiz   **Score_____**

____4.4 Solving Special Systems of Linear Equations

____4.5 Solving Linear Systems

____4.6 Solving Systems of Linear Equations by Using Matrices

____4.7 Systems of Linear Inequalities

Ch. 4 Systems of Linear Equations and Inequalities Test   **Score_____**

Chapter 5: Polynomials

____5.1 Multiplying Simple Polynomials

____5.2 Special Products of Simple Polynomials

____5.3_Day 1 Adding, Subtracting, and Multiplying Polynomials

____5.3_Day 2 Adding, Subtracting, and Multiplying Polynomials

Ch. 5 Polynomials Quiz   **Score_____**

____5.4_Day 1 Dividing Polynomials

____5.4_Day 2 Dividing Polynomials

____5.5 Solving Polynomial Equations in Factored Form

____5.6 Factoring $x^2 + bx + c$

____5.7 Factoring $ax^2 + bx + c$

Ch. 5 Polynomials Test   **Score_____**

Unit 2: Systems of Equations and Polynomials Test   **Score_____**

Unit 2 Math Journal Entries   **Score_____**

***End of Second Quarter / First Semester

Intermediate Algebra Pacing Guide

<u>Unit 3: Rational and Radical Expressions and Equations</u>

Chapter 6: Rational Expressions and Equations

    ____6.1 Inverse Variation

    ____6.2_Day 1 Multiplying and Dividing Rational Expressions

    ____6.2_Day 2 Multiplying and Dividing Rational Expressions

    Ch. 6 Rational Expressions and Equations Quiz　　　　Score_____

    ____6.3_Day 1 Adding and Subtracting Rational Expressions

    ____6.3_Day 2 Adding and Subtracting Rational Expressions

    ____6.4 Solving Rational Equations

    Ch. 6 Rational Expressions and Equations Test　　　　Score_____

Chapter 7: Radical Expressions and Equations

    ____7.1 nth Roots and Rational Exponents

    ____7.2_Day 1 Properties of Rational Exponents and Radicals

    ____7.2_Day 2 Properties of Rational Exponents and Radicals

    Ch. 7 Radical Expressions and Equations Quiz　　　　Score_____

    ____7.3_Day 1 Solving Radical Equations and Inequalities

    ____7.3_Day 2 Solving Radical Equations and Inequalities

    ____7.4 Complex Numbers

    Ch. 7 Radical Expressions and Equations Test　　　　Score_____

Unit 3: Rational and Radical Expressions and Equations Test　　Score_____

Unit 3 Math Journal Entries　　　　　　　　　　　　Score_____

Intermediate Algebra Pacing Guide

Unit 4: Quadratic, Exponential and Logarithmic Functions

Chapter 8: Quadratic Equations, Functions, and Inequalities

    ____8.1_Day 1 Solving Quadratic Equations

    ____8.1_Day 2 Solving Quadratic Equations

    ____8.2 Completing the Square

    Ch. 8 Quadratic Equations, Functions & Inequalities Quiz   Score_____

***End of Third Quarter

    ____8.3_Day 1 Using the Quadratic Formula

    ____8.3_Day 2 Using the Quadratic Formula

    ____8.4_Day 1 Characteristics of Quadratic Functions

    ____8.4_Day 2 Characteristics of Quadratic Functions

    ____8.5 Quadratic Inequalities

    Ch. 8 Quadratic Equations, Functions, & Inequalities Test   Score_____

Chapter 9: Exponential and Logarithmic Functions

    ____9.1_Day 1 Inverse of a Function

    ____9.1_Day 2 Inverse of a Function

    ____9.2 Performing Function Operations

    Ch. 9 Exponential and Logarithmic Functions Quiz 1   Score_____

    ____9.3_Day 1 Exponential Growth and Decay Functions

    ____9.3_Day 2 Exponential Growth and Decay Functions

    ____9.4_Day 1 Logarithms and Logarithmic Functions

    ____9.4_Day 2 Logarithms and Logarithmic Functions

    Ch. 9 Exponential and Logarithmic Functions Quiz 2   Score_____

    ____9.5_Day 1 Properties of Logarithms

    ____9.5_Day 2 Properties of Logarithms

    ____9.6_Day 1 Solving Exponential and Logarithmic Equations

    ____9.6_Day 2 Solving Exponential and Logarithmic Equations

    Ch. 9 Exponential and Logarithmic Functions Test   Score_____

Unit 4: Quadratic, Exponential and Logarithmic Functions Test   Score_____

Unit 4 Math Journal Entries   Score_____

Intermediate Algebra Pacing Guide

Unit 5: Mini ACT Review Unit (Optional) – highly recommended for Juniors before April

Trigonometric Ratios and Functions

     ____ 9.1 Right Triangle Trigonometry

     ____ 9.2_Day 1 Angles and Radian Measure

     ____ 9.2_Day 2 Angles and Radian Measure

     ____ 9.3 Trigonometric Functions of Any Angle

     Trigonometric Ratios and Functions Test   Score_____

***End of Fourth Quarter / Second Semester