



# PAREF Southcrest

## Math 8 Topic Outline

### 1st Quarter

#### **Linear Equations, Inequalities, and Applications**

Linear Equations in One Variable and Application

Linear Inequalities in One Variable and Application

Linear Equations in Two Variables; The Rectangular Coordinate System

The Slope of a Line

Writing equations of a line

#### **Systems of Linear Equations in Two Variables**

Graphing

Substitution

Elimination

Applications of Systems of Linear Equations



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## Math 8 Topic Outline

### 2nd Quarter

#### **Exponents, Polynomials, and Polynomial Functions**

Laws of Exponents

Adding and Subtracting Polynomials

Multiplying Polynomials

Dividing Polynomials

#### **Factoring**

Greatest Common Factors; Factoring by Grouping

Factoring Trinomials

Special Factoring

A General Approach to Factoring

Solving Equations by Factoring



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## Math 8 Topic Outline

### 3rd Quarter

#### **Rational Expressions and Functions**

Rational Expressions and Functions; Multiplying and Dividing

Adding and Subtracting Rational Expressions

Complex Fractions

Equations with Rational Expressions and Graphs; Applications

Variation



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## Math 8 Topic Outline

### 4th Quarter

#### **Roots, Radicals, and Root Functions**

Radical Expressions

Rational Exponents

Simplifying Radical Expressions

Adding and Subtracting Radical Expressions

Multiplying and Dividing Radical Expressions

Solving Equations with Radicals

Complex Numbers