

St Sebastian School
Pre-Algebra Student Standards Mathematics
Pre-Algebra Exit Expectations Checklist

Number Operations and Relationships
• Develop and use order relationships of rational numbers
Whole numbers
Fractions
Decimals
Integers
• Apply operations to rational numbers
Addition
Subtraction
Multiplication
Division
• Apply percents to problem solving
Apply ratios and proportions to problem solving
• Convert fractions and decimals
Convert fractions and percents
Convert decimals and percents
• Application of GCF
Application of LCM
Application of prime numbers
• Understand concept of irrational numbers
Understand concept of real number system
• Understand concept of reciprocals
Understand concept of exponents
• Extend and apply estimation skills to rational numbers
• Extend and apply mental math skills to rational numbers
• Use problem solving to develop numerical/algebraic relationships
Probability and Statistics
• Predict outcomes
List possible outcomes
• Interpret experimental possibilities
Interpret theoretical possibilities
• Create tables
Create graphs
• Collect and organize data
Analyze data
Draw conclusions from data
• Calculate and interpret
Mean
Median
Mode
Range

• Construct circle graphs
Probability and Statistics
• Distinguish between dependent and independent events
• Use statistics to solve problems
Geometry
• Draw two dimensional shapes and figures
Measure two dimensional shapes and figures
Classify two dimensional shapes and figures
• Draw three dimensional shapes and figures
Measure three dimensional shapes and figures
Classify three dimensional shapes and figures
• Create and apply formulas for various shapes
• Compare geometric shapes by similarity to solve problems
Compare geometric shapes by congruence to solve problems
• Identify and draw
Points
Lines
Planes
• Construct
Angles
Rays
Parallel lines
Perpendicular lines
Triangles
Bisectors of lines
Bisector of angles
• Learn and apply formulas for
Area
Surface area
Volume
• Use area to solve problems
• Use volume to solve problems

Measurement
• Estimate measurements
• Compare English and metric units
• Convert metric units
Convert customary units
• Apply operations to measurement when conversion of like measurements is required
• Understand relationship of circle, circumference, radius, diameter
Apply relationship of circle, circumference, radius, diameter
• Find the perimeter of polygons
• Compute differences for time
Compute differences for temperature
Algebraic Relationships
• Knowledge of exponents, powers and square roots
• Create and evaluate expressions
• Apply properties to solve equations and inequalities
• Apply equations to solve problems
• Interpret equations using graphs and tables
• Knowledge of graphing equations and inequalities in all four quadrants
• Knowledge of slope (recognize, understand and apply)
• Solve multiple-step equations and inequalities (with variables on both sides)
• Use problem solving to develop numerical/algebraic relationships
• Knowledge of exponents, powers and square roots
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• Apply properties to solve equations and inequalities
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