

St Sebastian School
Grade Seven Student Standards Mathematics
Grade Seven Exit Expectations Checklist

Number Operations and Relationships
• Estimate to check reasonableness of results
• For whole numbers, fractions, decimals and percents
Develop and use order relationships
Understand and apply four operations
Extend and apply estimation and mental-math skills
Convert
• Problem-solving applications
Ratios/percent
GCF
LCM
Prime numbers
Exponential notation / scientific notation
Proportional relationships
• Recognize subsets of rational numbers & identify on a number line
• Identify prime and composite numbers to 100
Probability and Statistics
• Predict and list possible outcomes
• Interpret experimental and theoretical probabilities
• Read tables, graphs and charts
• Collect, organize and analyze data and draw conclusions
• Create and interpret stem and leaf plots
• Create and interpret line plots
• Interpret mean, median, mode & range
• Model situations by experimentation or simulation
Geometry
• Learn concepts of surface area
• Learn concepts of volume
• Describe and construct
Angles
Congruent
Lines in plane
Parallel
Perpendicular
• Identify plane and solid figures
• Describe plane and solid figures
• Compare plane and solid figures
• Classify plane and solid figures
• Identify transformations of geometric figures
Reflections

Translations
Symmetry
<ul style="list-style-type: none"> Learn proportions in relation to similar and congruent figures
Measurement
<ul style="list-style-type: none"> Concepts
Circumference
Radius
Diameter
<ul style="list-style-type: none"> Recognize measurement relationships
<ul style="list-style-type: none"> Apply measurement to problem solving
<ul style="list-style-type: none"> Add, subtract, multiply, and divide measurements where conversions of like measure may be required
<ul style="list-style-type: none"> Identify and measure angles
Right
Acute
Obtuse
Straight
<ul style="list-style-type: none"> Recognize congruent angles
<ul style="list-style-type: none"> Recognize lines
Parallel
Perpendicular
Algebraic Relationships
<ul style="list-style-type: none"> Understand concepts of:
Expression
Variable
Equation
Ratio
Percent
<ul style="list-style-type: none"> Recognize and describe pattern relationships
<ul style="list-style-type: none"> Knowledge of whole number exponents and powers
<ul style="list-style-type: none"> Recognize generalized properties
Commutative
Associative
Distributive
<ul style="list-style-type: none"> Convert large numbers using scientific notation
<ul style="list-style-type: none"> Plot ordered pairs in 4 quadrants
<ul style="list-style-type: none"> Order relationships of whole numbers, fractions, decimals, and integers