

## JUNIOR HIGH MATHEMATICS

### Joseph Sears School

6 <sup>th</sup> Grade Core Math		6 <sup>th</sup> Grade Core-Plus Math		7 <sup>th</sup> Grade Core Math		Prealgebra (7 <sup>th</sup> Grade)		Prealgebra (8 <sup>th</sup> Grade)		Algebra (8 <sup>th</sup> Grade)	
1	Problem Solving	1	Problem Solving	1	Problem Solving	1	Problem Solving	1	Problem Solving	1	Problem Solving
2	Introduction to Integers and Rational Numbers (does not include operations on rational numbers)	2	Introduction to Integers and Rational Numbers (includes operations on rational numbers)	2	Rational Numbers (includes integer operations)	2	Number Systems and Operations on Rational Numbers	2	Number Systems and Operations on Rational Numbers	2	Equations (includes non-linear equations and rate problems)
3	Expressions, Equations, and Inequalities	3	Expressions, Equations, and Inequalities	3	Expressions, Equations, and Inequalities	3	Solving Equations and Inequalities	3	Solving Equations and Inequalities	3	Linear Inequalities
4	Decimal Operations	4	Decimal Operations	4	Ratios, Rates, and Proportions	4	Linear Functions (includes proportional relationships)	4	Properties of Functions (includes proportional relationships and linear functions)	4	Systems of Linear Equations and Inequalities
5	Rational Number Sense (factors, multiples)	5	Rational Number Sense (includes using prime factorization to calculate GCF, LCM)	5	Geometry	5	Transformational Geometry (includes congruence, similarity, tessellations)	5	Systems of Linear Equations	5	Polynomials and Factoring
6	Fraction Operations	6	Fraction Operations	6	Percents	6	Geometry: Pythagorean Theorem, Angles, Surface Area, Volume	6	Transformational Geometry (includes congruence, similarity, tessellations)	6	Quadratic Functions
7	Geometry	7	Geometry (includes Pythagorean Theorem)	7	Probability	7	Radicals and Integer Exponents	7	Geometry: Pythagorean Theorem, Angles, Surface Area, Volume	7	Functions and Transformations
8	Ratios, Rates, and Proportions	8	Ratios, Rates, and Proportions (includes dimensional analysis)	8	Statistics	8	Probability	8	Radicals and Integer Exponents (includes scientific notation)	8	Sequences: Linear Functions, Exponential Functions, Exponential Growth and Decay
9	Percents	9	Percents (includes percent change)			9	Statistics	9	Statistics: Patterns of Association in Bivariate Data	9	Statistics
10	Statistics	10	Statistics								