Scope & Sequence: St. Francis Xavier

8th Grade Regular Algebra

Main Resource: Reveal Math Course 3

August/September	October	November	December	January
Begin the year! (5 weeks) ● Introduction to Class, Expectations and Procedures. **Module 1 - Exponents and Scientific Notation** ● 1.1 Powers and Exponents 8.EE.A.1 ● 1.2 Multiply and Divide Monomials: Product of Powers, Quotient of Powers 8.EE.A.1 ● Review 1.1 & 1.2 & Quiz ● 1.3 Powers of Monomials 8.EE.A.1 ● 1.4 Zero and Negative Exponents 8.EE.A.3, 8.EE. A.4 ● Review 1.3 -1.4 & Quiz ● 1.5 Scientific Notation 8.EE.A.3, 8.EE. A.4 ● Review Module 1 ● Module 1 Assessment ● Pretest Module 2	**Module 2 (4 weeks) Real Numbers** ● 2.1 Terminating and Repeating Decimals 8.NS.A.1 ● 2.2 Roots 8.EE.A.2 ● Review 2.1 -2,2 & Quiz ● 2.3 Real Numbers 8.NS.A.1, 8.NS.A.2 ● 2.4 Estimate Irrational Numbers 8.NS.A.2 ● Review 2.3-2.4 & Quiz ● 2.5 Compare and Order Real Numbers 8.NS.A.1, 8.NS.A.2 ● Module 2 Review ● Module 2 Assessment ● Pretest for Module 3	**Module 3 (3 Weeks) Solve Equations with Variables on Each Side** ● 3.1 Solve Equations with Variables on Each Side 8.EE.C.7, 8.EE.C.7.B ● 3.2 Write and Solve Equations with Variables on EAch Side 8.EE.C.7, 8.EE.C.7.B ● 3.3 Solve Multi Step Equations 8.EE.C.7, 8.EE.C.7.B ● Review 3.1-3.3 and Quiz ● 3.4 Write and Solve the Multi-Step Equations 8.EE.C.7, 8.EE.C.7.B ● 3.5 Determine the Number of Solutions 8.EE.C.7, 8.EE.C.7.A ● Module 3 Review ● Module 3 Assessment ● Pretest Module 4	**Module 4 (3 weeks) Linear Relationships and Slope** ● 4.1 Proportional Relationships and Slope 8.EE.B.5 ● 4.2 Slope of a Line 8.EE.B.6, 8.F.B.4, 8.SP.A.3 ● 4.3 Similar Triangles and Slope 8.EE.B.6 ● Review 4.1-4.3 & Quiz ● Review for High School Testing	**Module 4 (2 Weeks) Linear Relationships and Slope Cont.** ● 4.4 Direct variations 8.EE.B.6 ● 4.5 Slope-Intercept Form 8.EE.8.6 ● 4.6 Graph Linear Equations 8.EE.C.8.B, 8.F.A.3 ● Review Module 4 ● Module 4 Assessment ● Pretest for Module 5 **Module 5 (2 Weeks) Functions** ● 5.1 Identify Functions 8.F.A.1 ● 5.2 Function Tables 8.F.A.1 ● 5.3 Construct Linear Functions 8.F.B.4 ● Review 5.1-5.3 & Quiz ● 5.4 Compare Functions 8.F.A.2 ● 5.5 Nonlinear Functions 8.F.A.3 ● 5.6 Qualitative Graphs 8.F.B.5 ● Review Module 5

				Module 5 Assessment
● Hand out and go over High School testing topics.				● Module 5 Assessment

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8th Grade Regular Algebra

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February	March	April	May/June	
Module 6 (2 Weeks) Systems of Linear Equations ● 6.1 Solve Systems of Equations by Graphing 8.EE.C.8, 8.EE.C.8.A, 8.EE.C.8.B, 8.EE.C.8.C ● 6.2 Determine Number of Solutions 8.EE.C.8, 8.EE.C.8.A, 8.EE.C.8.B, 8.EE.C.8.C ● 6.3 Solve Systems of Equations by Substitution 8.EE.C.8, 8.EE.C.8.B, 8.EE.C.8.C ● Review 6.1-6.3 & Quiz ● 6.4 Solve Systems of Equations by Elimination 8.EE.C.8,	**Module 8 (2 Weeks) Transformations** ● 8.1 Translations 8.G.A.1, 8.G.A.1.A, 8.G.A.3 ● 8.2 Reflections 8.G.A.1, 8.G.A.1.A, 8.G.A.3 ● 8.3 Rotations 8.G.A.1, 8.G.A.1.A, 8.G.A.3 ● 8.4 Dilations 8.G.A.3 ● Review Module 8 ● Module 8 Assessment **Module 9 (2 Weeks)** ● **Congruence and Similarity** 9.1 Congruence and Transformations 8.G.A.1, 8.G.A.1.A, 8.G.A.1.B, 8.G.A.1.C, 8.G.A.2 ● 9.2 Congruence and Corresponding	**Module 10 (3 Weeks) Volume** ● 10.1 Volume of Cylinders 8.G.C.9 ● 10.2 Volume of Cones 8.G.C.9 ● 10.3 Volume of Spheres 8.G.C.9 ● 10.4 Find Missing Dimensions 8.G.C.9 ● 10.5 Volume of Composite Solids 8.G.C.9 ● Module 10 Review ● Module 10 Assessment	**Module 11 (4 weeks) Scatter Plots and Two-Way Tables** ● 11.1 Scatter Plots 8.SP.A.1 ● 11.2 Draw Lines of Fit 8.SP.A/2 ● 11.3 Equations for Lines that Fit 8.SP.A.3 ● 11.4 Two-Way Tables 8.SP.a.4 ● 11.5 Associations in Two-Way Tables 8.SP.A.4 ● Module 11 Review ● Module 11 Assessment	

8.EE.C.8.B, 8.EE.C.8.C ● 6.5 Write and Solve Systems of Equations 8.EE.C.8, 8.EE.C.8.B, 8.EE.C.8.C ● Review Module 6 ● Module 6 Assessment **Module 7 (2 Weeks) Triangles and the Pythagorean Theorem** ● 7.1 Angle Relationships and Parallel Lines 8.G.A.5 ● 7.2 Angle Relationships and Triangles 8.G.A.5 ● 7.3 The Pythagorean Theorem 8.G.B.6, 8.G.B.7 ● 7.1-7.3 Review & Quiz ● 7.4 Converse of the Pythagorean Theorem 8.G.B.6 ● 7.5 Distance on the Coordinate Plane 8.G.B.8 ● Review Module 7 ● Module 7 Assessment	Parts 8.G.A.1, 8.G.A.1.A, 8.G.A.1.B ● 9.3 Similarity and Transformatio ns 8.G.A.4 ● 9.1-9.3 Review & Quiz ● 9.4 Similarity and Corresponding Parts 8.G.A.4, 8.G.A.5 ● 9.5 Indirect Measurement 8.G.A.4, 8.G.A.5 ● Module 9 Review ● Module 9 Assessment ● Module 10 Pretest			