ABSS 8th Grade Math Scope and Sequence

Unit #	Title of Unit	~ # of Days	Common Core State Standards	Key Concepts
1	Equations	18	8.EE.7 8.EE.7a 8.EE.7b	• Solving Simple & Multi-Step Equations • Solving Equations with Variables on Both Sides • Rewriting Equations and Formulas
2	Transformations	15	8.G.1 8.G.2 8.G.3 8.G.4	• Similar & Congruent Figures • Translations, Reflections, Rotations • Perimeters & Areas of Similar Figures • Dilations
3	Angles and Triangles	15	8.G.5 8.EE.6	• Parallel Lines and Transversals • Angles of Triangles • Using Similar Triangles
4	Graphing and Writing Linear Equations	18	8.EE.5 8.EE.6 8.F.4	• Graphing Linear Equations • Slope of a Line • Graphing Proportional Relationships • Graphing Linear Equations in Slope-Intercept Form • Graphing Linear Equations in Standard Form • Writing Equations in Slope-Intercept Form • Writing Equations in Point-Slope Form
5	Systems of Linear Equations	18	8.EE.8a 8.EE.8b 8.EE.8c 8.EE.7	• Solving Systems of Linear Equations by graphing • Solving Systems of Linear Equations by Substitution • Solving Special Systems of Linear Equations
6	Functions	20	8.F.1 8.F.2 8.F.3 8.F.4 8.F.5 8.EE.5 8.EE.6	• Relations and Functions • Representations of Functions • Linear Functions • Comparing Linear and Nonlinear Functions • Analyzing and Sketching Graphs

7	Real Numbers and the Pythagorean Theorem	15	8.EE.2 8.G.6 8.G.7 8.G.8 8.NS.1 8.NS.2 8.G.6 8.G.7 8.G.8	• Finding Square Roots • Finding Cube Roots • The Pythagorean Theorem • Approximating Square Roots • Using the Pythagorean Theorem
8	Volume and Similar Solids	10	8.G.9	• Volumes of Cylinders • Volumes of Cones • Volumes of Spheres
9	Data Analysis and Displays	15	8.SP.1 8.SP.2 8.SP.3 8.SP.4	• Scatter Plots • Lines of Fit • Two-Way Tables • Choosing a Data Display
10	Exponents and Scientific Notation	20	8.EE.1 8.EE.3 8.EE.4	• Exponents • Product of Powers Property • Quotient Powers Property • Zero and Negative Exponents • Reading & Writing Scientific Notation • Operations in Scientific Notation

Total Days: 164 (Core) + 10 (Formative Assessment/Review) + 6 (EOG's) = 180

The Big Ideas suggested pacing guide is located on pages xxxii- xxxiii in the Blue Teacher Edition. Resources from the previous (2012-2014) unit plans are still available on the secondary curriculum website; however the alignment does not match the updated scope & sequence. The scope and sequence should be a beginning point for teachers when building assessments, creating daily lesson plans and meeting with PLC's. Focus should be spent on the prioritized standards - highlighted in yellow!

Considerations:
Lesson 3.3 "Angles of a Polygon" is being used as an applying standard 8.G.5 but is not included in the learning standards.