



ABSS 8th Grade Advanced Math/Math I Scope and Sequence

Unit #	Title of Unit	~ # of Days	Common Core Standards	Key Concepts	Pearson CC Math I	Pearson CC Math II
1	Reasoning with Equations and Inequalities	16	A.REI.1 A.REI.3 N.Q.1 N.Q.2 A.CED.1 A.CED.3 A.CED.4	<ul style="list-style-type: none"> Solve linear equations and inequalities Create linear equations and inequalities Use units to solve multi-step problems 	Chapter Sections: 1-2 thru 1-8 5-5	
2	Linear Relationships (Equations and Inequalities)	16	A.SSE.1 A.SSE.1A A.SSE.1B A.CED.1 A.CED.2 A.CED.3 F.IF.4 F.IF.5 F.IF.6 F.IF.7 F.IF.7A F.IF.8 F.LE.1B F.LE.2 F.LE.5 A.REI.10 A.REI.12 G.GPE.5 S.ID.7 S.ID.6 S.ID.6A S.ID.6b S.ID.6c S.ID.8 S.ID.9	<ul style="list-style-type: none"> Interpret Expressions and their parts Interpret Linear Models Create equations in two or more variables Represent and Graph equations and inequalities Interpret functions Analyze functions 	Chapter Sections: 1-1 2-1 thru 2-5 2-7 3-1 thru 3-6	
3	Systems of Linear Equations and Linear Inequalities	18	A.CED.3 A.REI.5 A.REI.6 A.REI.11 A.REI.12	<ul style="list-style-type: none"> Represent and Solve Systems of Equations and Inequalities 	Chapter Sections: 4-1 thru 4-6	
4	Exponential Relationships	16	A.SSE.1 A.SSE.1b A.SSE.3.c	<ul style="list-style-type: none"> Use the properties of exponents 	Chapter Sections: 5-1 thru 5-6	Chapter Sections: 14-1

			<p>A.CED.1 A.CED.2 F.IF.4 F.IF.5 F.IF.6 F.IF.7 F.IF.7e F.IF.8 F.IF.8b F.LE.1c F.LE.2 F.LE.5 A.REI.11 N.RN.1 N.RN.2</p>	<ul style="list-style-type: none"> Exponential Functions Exponential Growth and Decay 		
5	Polynomials & Radicals	18	<p>A.SSE.1 A.SSE.1a A.SSE.2 A.SSE.3 A.SSE.3a A.APR.1</p>	<ul style="list-style-type: none"> Simplifying Radicals 	Chapter Sections: 5-8	Chapter Sections: 11-1 thru 11-8
6	Quadratic Relationships	20	<p>A.SSE.1 A.SSE.1a A.CED.2 F.IF.4 A.SSE.3 A.SSE.3A F.IF.7 F.IF.7a F.IF.8 F.IF.8a</p>			Chapter Sections: 4-1 thru 4-5
7	Functions and Models	14	<p>F.IF.1 F.IF.2 F.IF.3 F.IF.4 F.IF.5 F.IF.7 F.IF.9 F.BF.1a F.BF.1b F.BF.2 F.BF.3 F.LE.1 F.LE.1a F.LE.3 S.ID.6a</p>	<ul style="list-style-type: none"> Relations and Functions Combining Functions Analyzing data Trend Lines 	Chapter Sections: 2-6, 5-7 and 6-4	Chapter Sections: 12 - 9
8	Descriptive Statistics	16	<p>S.ID.1 S.ID.2 S.ID.3 S.ID.5</p>	<ul style="list-style-type: none"> Frequency and Histograms Measures of Central Tendency Two-Way Frequency Tables 	Chapter Sections: 6-1 thru 6-5	

9	Connecting Algebra and Geometry	18	N.Q.3 G.CO.1 G.GPE.4 G.GPE.6 G.GPE.7 G.GMD.1 G.GMD.3	<ul style="list-style-type: none"> • Points, Lines and Planes • Measuring Segments, Angles • Angle Pairs • Midpoint and Distance in the Coordinate Plane 	Chapter Sections: 7-2 thru 7-6	Chapter Sections: 9-1, 9-3 thru 9-5
10	Math 8: Geometry	10	8.G.1 8.G.2 8.G.3 8.G.4 8.G.5 8.G.9	<ul style="list-style-type: none"> • Similar & Congruent Figures • Translations, Reflections, Rotations • Perimeters & Areas of Similar Figures • Dilations • Volumes of Cylinders • Volumes of Cones • Volumes of Spheres 		
11	Math 8: Statistics	5	8.SP.1 8.SP.2 8.SP.3 8.SP.4	<ul style="list-style-type: none"> • Scatter Plots • Lines of Fit • Two-Way Tables • Choosing a Data Display 		

Total Days: 167 (Core) + 7 (Assessments/Review) + 6 (EOC's) = 180

Teachers will have online access to the Pearson Math I & Math II textbooks. Resources from the previous (2012-2014) unit plans are still available on the secondary curriculum website. The scope and sequence should be a beginning point for teachers when building assessments, creating daily lesson plans and meeting with PLC's. Additional resources will be needed to supplement the curriculum in regards to rigor and re-teaching of some standards. The On-Core resource is available at each school and has alignment to the common core math standards. **Prioritized standards are highlighted in yellow.**