Math 8 (Full Year)
2023 Pacing Guide

Theme	Unit	Topic	2023 SOL	Chapters/ Modules	Pacing
1st Nine Weeks					
Real Numbers	Real Numbers	Real Numbers	8.NS.2	S.1 Ch. 1.1 & 1.2	1 week
		Squares and Square Roots	8.NS.1	Ch. 1.1	1 week
		Compare and Order Rational Numbers	8.NS.1	Ch. 1.3, 2.2, 2.3, & 2.4	1 week
	Operations with Real Numbers	Order of Operations	8.PFA.1	**	1 week
		Evaluating Expressions	8.PFA.1	S.6 & S.7	1 week
Algebraic Concepts	Equations and Inequalities	Equations	8.PFA.4	Ch. 7.1, 7.2, 7.3, & 7.4	3 weeks
2nd Nine Weeks					
Geometry	2D Geometry	Pythagorean Theorem	8.MG.4	Ch. 12.1 & 12.2	1 week
Real Numbers	Operations with Real Numbers	Application with Real Numbers	8.CE.1	S.2, S.3, & S.4	3 weeks
Algebraic Concepts	Functions	Function Vocabulary	8.PFA.2	Ch. 6.1 & S.5	4 weeks
		Graphing Linear Functions Slope/y-intercept	8.PFA.3	Ch. 3.2, 3.3, 4.1-4.3, & 5.1-5.3	
		Functions	8.PFA.3	Ch 6.1-6.4	
	Equations and Inequalities Continued	Inequalities	8.PFA.5	S.8-S.9	1 week
3rd Nine Weeks					
Geometry	2D Geometry Continued	Transformations	8.MG.3	Ch. 9.1-9.3, 10.1-10.2 & S.10-11	3 weeks
		Angles	8.MG.1	**	1 week
		Composite Figures	8.MG.5	S.12-S.13	1.5 weeks
	3D Geometry	Volume and Surface Area	8.MG.2	Ch. 13.2 S.14-S.18	1.5 weeks
4th Nine Weeks					
Probability and Statistics	Probability and Statistics	Probability	8.PS1	S.23	2 weeks
		Graphing Methods	8.PS.2 8.PS.3	Ch.14.1-14.2 S.22	2 weeks
SOL Review					4 weeks

** Incorporate additional Resources for the following SOL Standards

Changes from VDOE

Deletions from Grade 8 (2016 SOL)	Additions (2023 SOL)
8.2 [EKS] – Sum and products of rational and irrational numbers 8.3b – Determine positive or negative square roots of perfect squares [Included in Grade 7] 8.4 [EKS] – Reconcile account balance [Included in Economics and Personal Finance] 8.4 [EKS] – Compute simple interest [Included in Economics and Personal Finance] 8.6a – Solve problems involving the surface area of a cone [Included in Geometry] 8.6b [EKS] – Describe how changing one attribute of a rectangular prims affects volume and surface area [Moved to Grade 7] 8.7a – Give a polygon, apply a dilation, in the coordinate plane [Moved to Grade 7] 8.8 – Constructing 3-D models (front, side, back view) 8.14a – Evaluating algebraic expressions given replacement values of the variable [Included in Grade 7] 8.16a – Recognize and describe a line with a slope that is positive, negative, or zero (0) [Moved to Grade 7]	8.PS.2 [KS] – Additional data analysis knowledge and skills representing the data cycle have been included with a focus on boxplots. 8.PS.3 [KS] – Additional data analysis knowledge and skills representing the data cycle have been included, with a focus on scatterplots.