Current Staff	Mr. Haston							
Course	7th Grade Mathematics							
Unit/ Length	Unit Objectives/ Big Ideas	Basic Outline/ Structure	Materials/ Text	Content Vocabulary	Next Gen/ CCSS	Assessments & Activities		
Module 1 (30 days)	Ratios and Proportional Relationships	Analyze proportional relationships and use them to solve real-world and mathematical problems. Solve real-life and mathematical problems using numerical and algebraic expressions and equations. Draw, construct, and describe geometrical figures and describe the relationships between them.	Engage NY (online resources) Ratio Table Coordinate Plane Equations of the form y=kx	Proportional To Proportional Relationship Constant of Proportionality One-to-One Correspondence Scale Drawing Scale Factor	7.RP.1 7.RP.2 7.RP.3 7.EE.4 7.G.1	Lesson Assignments Mid-Module Quiz End-Module Quiz End-Module Test		
Module 2 (30 days)	Rational Numbers	Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. Use properties of operations to generate equivalent expressions. Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	Engage NY (online resources) Equations Expressions Integer Game Number Line Tape Diagram	Additive Identity Additive Inverse Break-Even Point Distance Formula Loss Multiplicative Identity Profit Repeating Decimal Terminating Decimal	7.NS.1 7.NS.2 7.NS.3 7.EE.2 7.EE.4	Lesson Assignments Mid-Module Quiz End-Module Quiz End-Module Test		
Module 3		Use properties of operations to generate equivalent expressions. Solve real-life and mathematical problems using numerical and	Engage NY (online resources) Area Model Coordinate Plane	Expression in Expanded Form Expression in Factored Form Expression in Standard Form Coefficient of the Term	7.EE.1 7.EE.2 7.EE.3 7.EE.4	Lesson Assignments Mid-Module Quiz		

(35 days)	Expressions and Equations	algebraic expressions and equations. Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.	Equations and Inequalities Expressions Geometric Figures Nets for Three-Dimensional Figures Number Line Protractor Tape Diagram	Circle Diameter of a Circle Circumference Pi Circular Region or Disk	7.G.4 7.G.5 7.G.6	End-Module Quiz End-Module Test
Module 4 (25 days)	Percents and Proportional Relationships	Analyze proportional relationships and use them to solve real-world and mathematical problems. Solve real-life and mathematical problems using numerical and algebraic expressions and equations. Draw, construct, and describe geometrical figures and describe the relationships between them.	Engage NY (online resources) Calculator Coordinate Plane Double Number Line Diagrams Equations Expressions Geometric Figures Ratio Tables Tape Diagrams	Absolute Error Percent Error	7.RP.1 7.RP.2 7.RP.3 7.EE.3 7.G.1	Lesson Assignments Mid-Module Quiz End-Module Quiz End-Module Test
Module 5 (25 days)	Statistics and Probability	Use random sampling to draw inferences about a population. Draw informal comparative inferences about two populations. Investigate chance processes and develop, use, and evaluate probability models.	Engage NY (online resources) Graphing Calculator Dot Plots Histograms	Compound Event Inference Long-Run Relative Frequency Probability Probability Model Random Sample Simulation Tree Diagram	7.SP.1 7.SP.2 7.SP.3 7.SP.4 7.SP.5 7.SP.6 7.SP.7 7.SP.8	Lesson Assignments Mid-Module Quiz End-Module Quiz End-Module Test
Module 6 (35 days)	Geometry	Draw, construct, and describe geometrical figures and describe the relationships between them. Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.	Engage NY (online resources) Familiar objects such as an apple, a car, a couch, a cup, etc Website illustrating cross sections: Annenberg Learner	Correspondence Identical Triangles Unique Triangle Three sides condition Two angles and the included side condition Two angles and the side opposite a given angle condition Two sides and the included angle condition Two sides and a non-included angle condition	7.G.2 7.G.3 7.G.5 7.G.6	Lesson Assignments Mid-Module Quiz End-Module Quiz End-Module Test

		Right rectangular pyramid Surface of a pyramid	

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