

Mathematics Curriculum: 2018/2019 - Grade 7

Month	Chapter	Sections and Common Core Standards	Topic
September	Chapter 1: Operations with Integers	Chapter Opener	Review of previous content
		1.1 – Integers and Absolute Value: 7.EE.3	1.1 – Activity, Lesson
		1.2 – Adding Integers: 7.EE.3, 7.NS.1b, 7.NS.1d	1.2 – Activity, Lesson
		1.3 – Subtracting Integers: 7.EE.3, 7.NS.1c, 7.NS.1d	1.3 – Activity, Lesson
		Study Help / Quiz - 1.1-1.3 (quiz knowledge of the rules)	Quiz in assessment book (online)
		1.4 – Multiplying Integers: 7.EE.3, 7.NS.2a, 7.NS.2c	1.4 – Activity, Lesson
		1.5 – Dividing Integers: 7.NS.2b, 7.NS.2c, 7.NS.3	1.5 – Activity, Lesson
		1.6 – The Coordinate Plane: 7.NS.1b	1.6 – Activity, Lesson
		Chapter Review / Quiz – 1.4-1.6 (quiz the rules)	Online (Schoology/weekend)
		Standardized test prep	Take home due in class for discussion and grading
		Chapter 1 test	
		September/October	Chapter 2: Rational Numbers and Equations
2.1 – Rational Numbers: 7.EE.3, 7.NS.2b, 7.NS.2d	2.1 – Activity, Lesson		
2.2 – Adding and Subtracting Rational Numbers: 7.NS.1b, 7.NS.1c, 7.NS.1d	2.2 – Activity, Lesson		
2.3 – Multiplying and Dividing Rational Numbers: 7.NS.2a, 7.NS.2c, 7.NS.3	2.3 – Activity, Lesson		
Study Help / Quiz 2.1 – 2.3	Quiz in assessment book		
Algebraic Expressions (Resource)	Activity, Lesson		
Adding and Subtracting Linear Expressions (Resource)	Activity, Lesson		
Factoring Expressions			
2.4 – Solving Equations Using Addition and Subtraction: 7.EE.4a, 8.EE.7a, 8.EE.7b	2.4 – Activity, Lesson		
2.5 – Solving Equations Using Multiplication and Division: 7.EE.1/2/4a, 8.EE.7a/b	2.5 – Activity, Lesson		
2.6 – Solving Two-Step Equations: 7.EE.4a/b, 8.EE.7a/b	2.6 – Activity, Lesson		
2.6b – Solving Inequalities	2.6b - Lesson		
Chapter Review / Quiz – 2.4 – 2.6	Online (Schoology/weekend)		
Standardized test prep	Take home due in class for discussion and grading		
Chapter 2 Test			
October/November	Chapter 3: Proportions and Variations		
		3.1 – Ratios and Rates: 7.RP.1, 7.RP.2b	3.1 – Activity, Lesson
		3.2 – Slope: 7.RP.2b, 8.EE.5	3.2 – Activity, Lesson

		3.3 – Proportions: 7.RP.2a	3.3 – Activity, Lesson
		3.4 – Writing Proportions: 7.RP.2a	3.4 – Activity, Lesson
		3.5 – Solving Proportions: 7.RP.2a/b/d	3.5 – Activity, Lesson
		Study Help / Quiz 3.1-3.5	Quiz in assessment book (online)
		3.6 – Converting Measures Between Systems: 7.RP.3	3.6 – Activity, Lesson
		3.7 – Direct Variation: 7.RP.2a/c, 7.RP.3, 8.EE.5	3.7 – Activity, Lesson
		3.7b – Proportional Relationships	3.7b - Lesson
		3.8 – Inverse Variation: 7.RP.2a	3.8 – Activity, Lesson
		Chapter Review / Quiz – 3.6 - 3.8	Online (Schoology-weekend)
		Standardized test prep	Take home due in class for discussion and grading
		Chapter 3 Test	
November	Chapter 4: Percents	Chapter Opener	Review of previous content
		Percents and Decimals (resource)	Activity, Lesson
		Comparing and Ordering fractions, Decimals, and Percents	Activity, Lesson
		The Percent Proportion	Activity, Lesson
		4.1 – The Percent Equation: 7.EE.3, 7.RP.3	4.1 – Activity, Lesson
		4.2 – Percents of Increase and Decrease: 7.EE.3, 7.RP.3	4.2 – Activity, Lesson
		Study Help / Quiz – 4.1-4.2	Quiz in assessment book (online)
		4.3 – Discounts and Markups: 7.EE.3, 7.RP.3	4.3 – Activity, Lesson
		4.4 – Simple Interest: 7.EE.3, 7.RP.3	4.4 – Activity, Lesson
		Chapter Review / Quiz – 4.3-4.4	Online (Schoology)
		Standardized test prep	Take home due in class for discussion and grading
		Chapter 4 Test	
December	Chapter 5: Similarity and Transformations	Chapter Opener	Review of previous content
		Adjacent and Vertical Angles (Resource)	Activity, Lesson
		Complementary and Supplementary Angles	Activity, Lesson
		Triangles – Angle Measures of Triangles	Activity, Lesson
		Quadrilaterals	Activity, Lesson
		Study Help / Quiz	Quiz in assessment book (online)
		5.1 – Identify Similar Figures: 7.G.1	5.1 – Activity, Lesson
		5.2 – Perimeters and Areas of Similar Figures: 7.G.1	5.2 – Activity, Lesson
		5.3–Finding Unknown Measures in Similar Figures:7.G.1	5.3 – Activity, Lesson
		5.4 – Scale Drawings: 7.G.1	5.4 – Activity, Lesson
		Chapter Review / Quiz – 5.4-5.6	Online (Schoology)
		Standardized test prep	Take home due in class for discussion and grading

		Chapter 5 Test			
January	Chapter 6: Surface Areas of Solids	Chapter Opener	Review of previous content		
		6.1 – Drawing 3-Dimensional Figures:7.G.3	6.1 – Activity, Lesson		
		6.2 – Surface areas of Prisms: 7.G.4, 7.G.6	6.2 – Activity, Lesson		
		6.2b – Circles and Circumference (Resource)	6.2b - Lesson		
		Perimeters of Composite Figures (Resource)	Lesson		
		Areas of Circles(Resource)	Lesson		
		Areas of Composite Figures (Resource)	Lesson		
		6.3 – Surface Areas of Cylinders: 7.G.4, 7.G.6	6.3 – Activity, Lesson		
		Study Help / Quiz	Quiz in assessment book (online)		
		6.4 – Surface Areas of Pyramids: 7.G.6	6.4 – Activity, Lesson		
		Chapter Review / Quiz – 6.4-6.6	Online (Schoology)		
		Standardized test prep	Take home due in class for discussion and grading		
		Chapter 6 Test			
February	Chapter 7: Volumes of Solids	Chapter Opener	Review of previous content - online		
		7.1 – Volumes of Prisms: 7.G.6	7.1 – Activity, Lesson		
		7.2 – Volumes of Cylinders: 7.G.4, 7.G.6, 8.G.9	7.2 – Lesson		
		7.3 – Volumes of Pyramids: 7.G.6	7.3 – Activity, Lesson		
		7.4 – Volumes of Cones: 7.G.4, 7.G.6, 8.G.9	7.4 – Lesson		
		Study Help / Quiz	Quiz in assessment book (online)		
		7.5 – Volumes of Composite Solids: 7.G.4, 7.G.6	7.5 – Activity, Lesson		
		7.6 – Surface Areas and Volumes of Similar Solids: 7.G.4, 7.G.6	7.6 – Activity, Lesson		
		Chapter Review / Quiz – 7.5-7.6	Online (Schoology)		
		Standardized test prep	Take home due in class for discussion and grading		
		Chapter 7 Test			
		March	Chapter 8: Data Analysis and Samples	Chapter Opener	Review of previous content - online
				8.1 – Stem-and-Leaf Plots: 7.SP.1, 7.SP.2	8.1 – Lesson
8.2 – Histograms: 7.SP.1, 7.SP.2	8.2 – Lesson				
Study Help / Quiz	Quiz in assessment book (online)				
8.3 – Circle Graphs: 7.SP.1, 7.SP.2	8.3 – Activity, Lesson				
8.4 – Samples and Populations: 7.SP.1, 7.SP.2, 7.SP.3	8.4 – Activity, Lesson				
Chapter Review / Quiz – 8.3-8.4	Online (Schoology)				
Standardized test prep	Take home due in class for discussion and grading				
Chapter 8 Test					

March	Chapter 9: Probability	Chapter Opener	Review of previous content
		Outcomes and Events (Resource)	Activity and Lesson
		9.1 – Introduction to Probability: 7.SP.5	9.1 – Activity, Lesson
		9.2 – Theoretical Probability: 7.SP.7a, 7.SP.7b	9.2 – Activity, Lesson
		Study Help / Quiz	Quiz in assessment book (online)
		9.3 – Experimental Probability: 7.SP.6	9.3 – Activity, Lesson
		Compound Events (Resource)	Activity and Lesson
		9.4 – Independent and Dependent Events: 7.SP.8a, 7.SP.8b, 7.SP.8c	9.4 – Activity, Lesson
		Extension: Simulations (Resource)	Activity and Lesson
		Samples and Populations (Resource)	Activity and Lesson
		Extension: Generating Multiple Samples (Resource)	Activity and Lesson
		Comparing Populations (Resource)	Activity and Lesson
		Chapter Review / Quiz – 9.4 – 9.5	Online (Schoology)
		Standardized test prep	Take home due for discussion/grades
Chapter 9 Test			
April	Curriculum Review	Test prep practice and review for New York State Math Assessment	
May	ITBS	Union wide ITBS testing	
May	NYS Testing	Math state test based on Common Core curriculum	
May	Scientific Notation and Laws of Exponents	Scientific Notation – moving between standard form, scientific notation and product form. Laws of exponents – negative and zero property	Text – Preparing for grade 8
	Pythagorean Theorem and angle pairs.	Pythagorean theorem $\rightarrow a^2 + b^2 = c^2$ Angle pairs – complementary, supplementary and vertical	Text – Preparing for grade 8
	Multi-step equations	Solve multi-step equations	Text – Preparing for grade 8
	Slope	Find the slope of a line	Text – Preparing for grade 8
	Linear Equations	Graphs of Linear Equations	Text – Preparing for grade 8
June	Finals Review		
June	Finals	Test - Chapter 9, Scientific Notation, Laws of Exponents, Pythagorean Theorem, slope, linear equations, and Angle Pairs	

Topics: These will be covered in conjunction with modules on www.EngageNY.org Assignments will be given from site along with question palette for the week
Ready New York: Lesson to be assigned weekly and completed on loose leaf.

Project: 20%.

Quizzes: Weekly (most times).

Test Prep: Practice assignments will be given at the end of each chapter.

Students will be required to produce work on time: Late work will be penalized 5 % for each day late unless there is a valid written excuse by the parent or a doctor.

Makeup: If makeups are given the maximum possible score will be 70%

