

First Nine Weeks NEW 2016 MATH SOL	Text Book Topic - Page	Old 2009 SOL
<p>Powers of 10, Perfect Squares, Absolute Value 7.1 The student will a) investigate and describe the concept of negative exponents for powers of ten; b) *compare and order (no more than 4) numbers greater than zero written in scientific notation; c) *compare and order rational numbers; d) *determine square roots of perfect squares; and e) identify and describe absolute values for rational numbers *no calculator</p> <p>(Included on SOL test-From EKS: positive / negative as integers, proper/improper fractions, mixed numbers, decimals and percent)</p>	<p>TOPIC 1 VA3A-VA6 VA3A-VA6 VA1-VA2 VA7A-VA10 7A-12B 31A-36B</p>	<p>7.1 The student will a) investigate and describe the concept of negative exponents for powers of ten; b) *determine scientific notation for numbers greater than zero; c) *compare and order fractions, decimals, percents, and numbers written in scientific notation; d) *determine square roots; and e) identify and describe absolute value for rational numbers. *no calculator</p>
<p>Rational Number Computation and Estimation 7.2 The student will solve practical problems involving operations with rational numbers.</p>	<p>TOPIC 1 31A-36B, 45A-50B, 57A-62B 63A-68B 76-78</p>	
<p>INCLUDED FROM SIXTH GRADE --INTEGERS 6.6 The student will a) model addition, subtraction, multiplication, and division of integers; and b) add, subtract, multiply, and divide integers. c) simplify numerical expressions involving integers</p>	<p>Grade 6-Topic 2 VA1A-VA4, VA5A-VA8, VA9A-VA12 VA13A-VA16 131A-136B, 169</p>	<p>7.3 The student will a) model addition, subtraction, multiplication, and division of integers; b) add, subtract, multiply, and divide integers.</p>
<p>REPLACEMENT 7.11 The student will evaluate algebraic expressions for given replacement values of the variables. (Included on SOL test-From EKS: Represent using concrete materials and pictorial representations; evaluating exponents limited to 1,2,3 or 4; no braces; can include brackets and absolute value; square roots limited to perfect squares; apply properties)</p>	<p>TOPIC 4 189A-194B, 244</p>	<p>7.13 The student will a) write verbal expressions as algebraic expressions and sentences as equations and vice versa; and b) evaluate algebraic expressions for given replacement values of the variables.</p>
<p>BENCHMARK ONE</p>	<p>Benchmark Assessment when instruction is complete</p>	

Second Nine Weeks NEW 2016 MATH SOL	Text Book Topic	Old 2009 SOL
<p>Solve two-step Linear Equations 7.12 The student will solve two-step linear equations in one variable, including practical problems that require the solution of a two-step linear equation in one variable. (Included on SOL test-From EKS: apply properties) (Solving one-step linear equations in one variable and practical problems moved to sixth grade)</p>	<p>TOPIC 5 253A-258B, 259A-264B, 265A-270B, 302</p>	<p>7.14 The student will a) solve one- and two-step linear equations in one variable; and b) solve practical problems requiring the solution of one- and two-step linear equations.</p>
<p>Solve one & two-step Inequalities 7.13 The student will solve one- and two-step linear inequalities in one variable, including practical problems, involving addition, subtraction, multiplication, and division, and graph the solution on a number line. (Included on SOL test-from EKS: coefficients and terms are rational; apply properties)</p>	<p>TOPIC 5 273A-278B, 279A-284B 289A-294B 303-304</p>	<p>7.15 The student will a) solve one-step inequalities in one variable; and b) graph solutions to inequalities on the number line.</p>
<p>Slope 7.10 The student will a) determine the slope, m, as rate of change in a proportional relationship between two quantities and write an equation in the form $y = mx$ to represent the relationship; b) graph a line representing a proportional relationship between two quantities given the slope and an ordered pair, or given the equation in $y = mx$ form where m represents the slope as rate of change; c) determine the y-intercept, b, in an additive relationship between two quantities and write an equation in the form $y = x + b$ to represent the relationship; d) graph a line representing an additive relationship between two quantities given the y-intercept and an ordered pair, or given the equation in the form $y = x + b$, where b represents the y-intercept; and e) make connections between and among representations of a proportional or additive relationship between two quantities using verbal descriptions, tables, equations, and graphs.</p>	<p>TOPIC 2 VA11A-VA14 VA15A-VA18 VA19-VA22 VA19A-VA22 VA11A-VA14 VA15A-VA18 VA19A-VA22</p>	<p>7.12 The student will represent relationships with tables, graphs, rules, and words.</p>
<p>BENCHMARK TWO</p>	<p>Benchmark Assessment when instruction is complete</p>	

Third Nine Weeks NEW 2016 MATH SOL	Text Book Topic, Page	Old 2009 SOL
<p>Proportional Reasoning 7.3 The student will solve single-step and multistep practical problems, using proportional reasoning. (Included on SOL test-From EKS: <u>Create and use a ratio table to determine missing values; apply proportional reasoning to convert units of measure given the conversion factor</u>)</p>	<p>TOPIC 2, 3, 6, 8 91A-96B, 103A-108B, 121A-126B, 137A-142B, 143A-148B, 149A-154B, 305 415A-420B</p>	<p>7.4 The student will solve single-step and multistep practical problems, using proportional reasoning.</p>
<p>Probability 7.8 The student will a) determine the theoretical and experimental probabilities of an event; and b) investigate and describe the difference between the experimental probability and theoretical probability of an event.</p>	<p>TOPIC 7 355A-360B, 361A-366B, 367A-372B, 373A-378B, 403-406 405-406</p>	<p>7.9 The student will investigate and describe the difference between the experimental probability and theoretical probability of an event.</p>
<p>Histograms, Data from Graphs 7.9 The student, given data in a practical situation, will a) represent data in a histogram; b) make observations and inferences about data represented in a histogram; and c) compare histograms with the same data represented in stem-and-leaf plots, line plots, and circle graphs. (Included on SOL test-from EKS: no limit to number of data)</p>	<p>TOPIC 6 VA23A-VA26</p>	<p>7.11 The student, given data for a practical situation, will a) construct and analyze histograms; and b) compare and contrast histograms with other types of graphs presenting information from the same data set.</p>
<p>BENCHMARK THREE</p>	<p>Benchmark Assessment when instruction is complete</p>	

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Similar Figures 7.5 The student will solve problems, including practical problems, involving the relationship between corresponding sides and corresponding angles of similar quadrilaterals and triangles. (Determine whether two figures are similar moved to Geometry)	TOPIC 8 VA33A-VA36	7.6 The student will determine whether plane figures—quadrilaterals and triangles—are similar and write proportions to express the relationships between corresponding sides of similar figures.
Quadrilaterals 7.6 The student will a) compare and contrast quadrilaterals based on their properties; and b) determine unknown side lengths or angle measures of quadrilaterals.	TOPIC 8 421A-426B 478, VA27-VA28	7.7 The student will compare and contrast the following quadrilaterals based on properties: parallelogram, rectangle, square, rhombus, and trapezoid.
Translations & Reflections 7.7 The student will apply translations and reflections of right triangles or rectangles in the coordinate plane. (Included on SOL test --From EKS: Transformations can include both translation and then reflection over y- axis or x-axis OR reflection then translation) (Dilations moved to eighth grade and rotations moved to Geometry)	TOPIC 8 VA29A-VA32	7.8 The student, given a polygon in the coordinate plane, will represent transformations (reflections, dilations, rotations, and translations) by graphing in the coordinate plane.
Volume & Surface Area 7.4 The student will a) describe and determine the volume and surface area of rectangular prisms and cylinders; and b) solve problems, including practical problems, involving the volume and surface area of rectangular prisms and cylinders. (Describe how changing one attribute of a rectangular prism affects surface area and volume moved to eighth grade)	VA37A-VA40, VA41A-VA44, VA45A-VA48	7.5 The student will a) describe volume and surface area of cylinders; b) solve practical problems involving the volume and surface area of rectangular prisms and cylinders; and c) describe how changing one measured attribute of a rectangular prism affects its volume and surface area.
END OF FOURTH NINE-WEEKS NO FORMAL BENCHMARK	Use Formative Assessment to acquire data concerning student understanding	

2018-2019 CIP PACING GUIDE FOR MATH 7

1ST QUARTER	
Standard	Bullet (s)
6.6	A, B
7.1	A-E
7.2	
7.11	
BENCHMARK TEST	

2ND QUARTER	
Standard	Bullet (s)
7.10	A-E
7.12	
7.13	
BENCHMARK TEST	

3RD QUARTER	
Standard	Bullet (s)
7.3	
7.8	A-B
7.9	A-C
BENCHMARK TEST	

4TH QUARTER	
Standard	Bullet (s)
7.4	
7.5	
7.6	
7.7	
SOL TEST	