

GRADE 7 (HOLT) SYLLABUS– SEMESTER ONE

Concepts and Skills	Section	State Standards
EVALUATE EXPRESSIONS WITH EXPONENTS		
• Students will be able to represent numbers using exponents (include zero exponent).	2.1	[SS 7.1.1c] DK1 & DK2
• Students will be able to represent large numbers using scientific notation.	2.2	
• Students will be able to use order of operations.	2.3	
FIND FACTORS AND MULTIPLES		
Students will be able to find the prime factorization of composite numbers.	2.4	[SS 7.1.1e]
Students will be able to find the greatest common factor.	2.5	
Students will be able to find the least common multiple.	2.6	
WRITE AND SIMPLIFY ALGEBRAIC EXPRESSIONS		
• Students will be able to evaluate algebraic expressions.	2.7	[SS 7.3.1a, SS 7.3.1c, SS 7.3.3c] DK1 & DK2
• Students will be able to translate words into numbers, variables, and expressions.	2.8	[SS 7.3.1a, SS 7.3.1c] DK 1 & DK2
Students will be able to combine like terms.	2.9	[SS 7.3.1a, SS 7.3.1c]
Students will be able to use the distributive property with and without variables. (see Unit 2 supplemental lesson on docushare: from Big Ideas Math (book1: lesson 1.4)	Supp	[SS 7.3.1c, SS 7.3.3b]
SOLVE ONE-STEP EQUATIONS		
APPLY ONE-STEP EQUATIONS TO REAL-LIFE PROBLEMS		
• Students will be able to solve one-step equations using addition or subtraction. Include word problems. Lab 2C.	2.11	[SS 7.3.2a, SS 7.3.2b, SS 7.3.3a] DK1 & DK2
• Students will be able to solve one-step equations using multiplication or division. Include word problems.	2.12	
CUMULATIVE ASSESSMENT UNIT 2A&2B		
DEMONSTRATE INTEGER NUMBER SENSE		
Students will be able to classify numbers as natural, whole, and integers Students will be able to compare and order integers, and find absolute value.	3.1	[SS 7.1.1b, SS 7.1.1d]
• Students will be able to plot ordered pairs and on a coordinate plane.	3.2	[SS 7.2.2a, 7.2.2b] DK1
• Students will be able to identify the quadrant of a given point in the coordinate plane. • Students will be able to find the distance between points along the horizontal and vertical lines of a coordinate plane.	3.2/3.4	[SS 7.2.2c] DK1
PERFORM OPERATIONS WITH INTEGERS		
APPLY INTEGER OPERATIONS TO REAL-LIFE PROBLEMS		
• Students will be able to add integers. Lab 3A	3.3	[SS 7.1.2c, SS 7.1.3a] DK1
• Students will be able to subtract integers. Lab 3B	3.4	
• Students will be able to multiply and divide integers.	3.5	[SS 7.1.3a] DK1
• Students will solve one-step equations with integers. Include word problems.	3.6	[SS 7.1.3b] DK1 & DK2 [SS 7.3.2a, SS 7.3.2b] DK1 & DK2
DEMONSTRATE RATIONAL NUMBER SENSE		
• Students will be able to identify rational numbers and place them on a number line. <i>Incorporated skills: equivalent fractions and mixed numbers, equivalent fractions & decimals</i>	3.7	[SS 7.1.1a, SS 7.1.1b, SS 7.1.1d] DK1 & DK2
• Students will be able to compare and order rational numbers. <i>Incorporated skills: equivalent fractions and mixed numbers, equivalent fractions & decimals</i>	3.10	[SS 7.1.1a, SS7.1.1b] DK1 & DK2
DCA-M #1		
MULTIPLY AND DIVIDE WITH DECIMALS		
Students will be able to multiply decimals. Lab 4A	4.3	[SS 7.1.2b]
Students will be able to divide decimals by integers.	4.4	[SS 7.1.2b, 7.1.4a]
Students will be able to divide decimals and integers by decimals.	4.5	[SS 7.1.2b]
MULTIPLY AND DIVIDE WITH FRACTIONS		
Students will be able to multiply fractions and mixed numbers. Lab 4B. <i>Incorporated Skill: Distributive Property (see supplemental material from Passports Lesson 3.6)</i>	4.7	[SS 7.1.2.a]
Students will be able to divide fractions and mixed numbers.	4.8	
CUMULATIVE ASSESSMENT UNIT 3 & 4		
SOLVE AND APPLY EQUATIONS w/RATIONAL NUMBERS		
• Students will be able to solve equations containing decimals <i>Incorporated skills: add and subtract decimals</i>	4.6	[SS 7.3.2a, SS 7.3.2b] DK1 & DK2
• Students will be able to solve equations containing fractions and mixed numbers <i>Incorporated skills: add and subtract with fractions and mixed numbers.</i>	4.12	
• Students will be able to identify and explain properties used in solving two-step equations Lab 11A **Need to supplement with decimal & fraction 2-step equations	11.1	[SS 7.3.3d, SS 7.3.3f] DK1 & DK2
SOLVE AND APPLY ONE-STEP INEQUALITIES w/RATIONAL NUMBERS		
• Students will be able to write and graph inequalities. (<i>omit compound inequalities</i>)	11.4	[SS 7.3.1b] DK2
• Students will be able to solve one-step inequalities by addition and subtraction.	11.5	[SS 7.3.1b, SS 7.3.3e] DK1 & DK2
• Students will be able to solve one-step inequalities by multiplication and division.	11.6	
RE-ASSESSMENT UNIT 11		
SS=State Standard • = State Standard assessed DK= Depth of Knowledge Assessed		

NOTE: Include Focus on Problem Solving sections in each chapter.

- Check the reasonableness of solutions throughout the semester. [7.1.4a] DK1 & DK2
- Select, apply, and explain the method of computation when problem solving. [SS 7.1.3b] DK1 & DK2
- Model contextualized problem using various representations. [SS 7.3.2a] DK1 & DK2

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GRADE 7 (HOLT) SYLLABUS – SEMESTER TWO

Concepts and Skills	Section	State Standards
SOLVE PERCENT PROBLEMS		
APPLY PERCENT TO REAL-LIFE PROBLEMS		
<ul style="list-style-type: none"> • Students will be able to write equivalent fractions, decimals, and percents. • Students will be able to compare and order rational numbers. 	6.1	[SS 7.1.1a, SS 7.1.1b] DK1 & DK2
<ul style="list-style-type: none"> • Students will be able to find the percent of a number. 	6.2 & 6.3	[SS 7.1.3c] DK1 & DK2
<ul style="list-style-type: none"> • Students will be able to solve one-step equations containing percents. (proportion & equation) 	5.3&6.4	
<ul style="list-style-type: none"> • Students will be able to solve problems involving percent of change. 	6.5	
DCA-M #2		
INTERPRET AND APPLY PROBABILITY CONCEPTS		
Students will be able to use informal measures of probability.	10.1	
<ul style="list-style-type: none"> • Students will be able to find, compare and contrast experimental probabilities and theoretical probabilities. 	10.2 & 10.4	[SS 7.4.3b] DK2
Students will be able to use counting methods to determine possible outcomes.	10.3	[SS 7.4.3a] DK2
<ul style="list-style-type: none"> • Students will be able to find the probability of independent and dependent events. (using a tree diagram or organized list) 	10.5	[SS 7.4.3a] DK2
CUMULATIVE ASSESSMENT UNIT 6 & 10		
ANALYZE & INTERPRET DATA		
Students will be able to identify populations, random samples and biased samples. (Also use McDougal course 3 Chapter 12 Special Topic: Samples, pgs 644-645)	1.1 Supp	[SS 7.4.1c, SS 7.4.1d, SS 7.4.1e, SS 7.4.2a]
<ul style="list-style-type: none"> • Students will be able to find the mean, median, mode, and range of a data set. 	1.2	[SS 7.4.1b] DK1 & DK2
<ul style="list-style-type: none"> • Students will be able to interpret data in frequency tables and stem-and-leaf plots. 	1.3	[SS 7.4.1a] DK1 & DK2
<ul style="list-style-type: none"> • Students will be able to interpret data in bar graphs and histograms. 	1.4	
<ul style="list-style-type: none"> • Students will be able to interpret circle graphs. 	1.5	
<ul style="list-style-type: none"> • Students will be able to interpret line graphs. 	1.7	
<ul style="list-style-type: none"> • Students will be able to interpret scatter plots. 	1.8	
RE-ASSESSMENT UNIT 1 w/Data Project		
DCA-M #3		
CLASSIFY ANGLES & POLYGONS		
Students will be able to identify points, lines, and planes.	7.1	[SS 7.2.1b]
Students will be able to identify angles and parts of angles. Students will be able to draw and measure angles.	7.2	[SS 7.2.1b, SS 7.2.4c, SS 7.2.5a]
Students will be able to classify triangles by their side lengths and angle measures.	7.6	[SS 7.2.4c]
Students will be able to identify and name quadrilaterals.	7.7	[SS 7.2.4a]
TRANSFORMATIONS		
<ul style="list-style-type: none"> • Students will be able to recognize, describe, and show transformations. 	7.10	[SS 7.2.3b] DK1 & DK2
Students will be able to identify lines of symmetry for a reflection.	7.11	[SS 7.2.3a]
FIND PERIMETER AND AREA OF POLYGONS & CIRCLES		
<ul style="list-style-type: none"> • Students will be able to find the perimeter of a polygon and the circumference of a circle. 	8.3	[SS 7.2.5b] DK1 & DK2
<ul style="list-style-type: none"> • Students will be able to find the area of triangles and trapezoids. 	8.5	
<ul style="list-style-type: none"> • Students will be able to find the area of circles. 	8.6	
DCA-M #3B (paper/pencil)		
At this point in curriculum 7th Grade Assessed State Standards have been covered		
IDENTIFY 3-D FIGURES & THEIR NETS TO SOLVE PROBLEMS		
Students will be able to identify various 3-D figures.	9.1	[SS 7.2.4a, SS 7.2.4b]
Students will be able to create 2-dimensional representations of 3-dimensional objects to visualize and solve problems (surface area from a net).	9.4 Lab 9B	[SS 7.2.4b]
CUMULATIVE ASSESSMENT UNIT 7 & 8/9		
USE PROPORTIONAL REASONING		
Students will be able to identify, write, and compare ratios and rates.	5.1	
Students will be able to solve proportion by using cross products.	5.3	[SS 7.3.2a, SS 7.3.2b]
Students will be able to use dimensional analysis to make unit conversions. Students will be able to recognize the inverse relationship between the size of a unit and the number of units used when measuring.	5.4	[SS 7.2.5c]
APPLY RATIO & PROPORTION TO GEOMETRIC FIGURES		
Students will be able to use ratios to determine if two figures are similar.	5.5	[SS 7.2.1a]
Students will be able to use similar figures to find unknown lengths.	5.6	
Students will be able to use ratios and proportions in scale drawings.	5.7	[SS 7.3.2a, SS 7.3.2b]
ReAssess Unit 5 as needed		
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- Check the reasonableness of solutions throughout the semester. [7.1.4a] DK1 & DK2
- Select, apply, and explain the method of computation when problem solving. [SS 7.1.3b] DK1 & DK2
- Model contextualized problem using various representations. [SS 7.3.2a] DK1 & DK2

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