

GRADE 6 (HOLT) SYLLABUS SEMESTER ONE

Concepts and Skills	Section	State Standards
Evaluate and Compare Whole Numbers and Exponents		
• Students will be able to represent numbers and find the value of numbers using exponents.	1.3	[SS 6.1.1d] DK 1
• Students will be able to use the order of operations.	1.4	[SS 6.3.3b] DK1
Write and Evaluate Expressions		
• Students will be able to identify and evaluate expressions.	2.1	[SS 6.3.1a, 6.3.1c, 6.3.3b, 6.3.3c] DK1 & DK2
Students will be able to translate between words and math.	2.2	[SS 6.3.1a, 6.3.2b] DK1 & DK2
Solve One-Step Equations		
Apply One-Step Equations		
• Students will be able to solve whole number addition equations. Check solutions. Add word problems.	2.4	[SS 6.1.4a, 6.3.1b, 6.3.3a, 6.3.3d, 6.3.3e] DK1 & DK2
• Students will be able to solve whole number subtraction equations. Check solutions. Add word problems.	2.5	
• Students will be able to solve whole number multiplication equations. Check solutions. Add word problems.	2.6	
• Students will be able to solve whole number division equations. Check solutions. Add word problems.	2.7	
CUMULATIVE ASSESSMENT 1 & 2		
Perform Operations with Decimals		
• Students will be able to use drawings, words and symbols to explain the meaning of addition and subtraction with decimals. • Lab Pg. 100.	3.3	[SS 6.1.2b, 6.1.3a] DK1 & DK2 [SS 6.1.2b] DK1 & DK2
• Students will be able to multiply and divide decimals by powers of ten and to convert metric measurements. • Lab Pg. 110.	3.4	[SS 6.1.3a, 6.2.5a, 6.2.5b, 6.2.5c] DK1
• Students will be able to multiply decimals.	3.6	[SS 6.1.3a] DK1
• Students will be able to divide decimals.	3.7&3.8	
Problem Solve Using Decimals		
• Students will be able to solve problems by interpreting the quotient.	3.3-3.8 3.9	[SS 6.1.3a] DK1
DCA-M #1		
• Students will be able to solve decimal equations.	3.10	[SS 6.1.3a, 6.3.3d] DK1
Use Divisibility Rules to Factor		
• Students will be able to use divisibility rules.	4.1	[SS 6.1.3b] DK1 & DK2
• Students will be able to write prime factorization of composite numbers.	4.2	[SS 6.1.1e] DK1
Students will be able to find the greatest common factor.	4.3	
Convert and Compare Using Fractions and Decimals		
Students will be able to convert between decimals and fractions.	4.4	[SS 6.1.1a]
Students will be able to write equivalent fractions and mixed numbers. Lab Pg. 176- measure to the nearest 1/16 –inch.	4.5	[SS 6.1.1a, 6.2.5a]
Students will be able to compare and order fractions.	4.6	[SS 6.1.1a]
Students will be able to convert between mixed numbers and improper fractions.	4.7	
Add and Subtract with Fractions and Mixed Numbers		
• Students will be able to add and subtract fractions with like denominators and write in simplest form. <i>(use words, drawings and symbols)</i>	4.8	[SS 6.1.2a] DK1 & DK2
Students will be able to find the least common multiple.	5.5	
• Students will be able to add and subtract fractions with unlike denominators. <i>Lab 5C Pg. 240 (use words, drawings and symbols)</i>	5.7	[SS 6.1.2a] DK1 & DK2
• Students will be able to add and subtract mixed numbers with unlike denominators. <i>Lab 5D Pg.250 (use drawings, words and symbols)</i>	5.8 & 5.9	
Multiply and Divide with Fractions and Mixed Numbers		
• Students will be able to multiply fractions by whole numbers and write in simplest form.	4.9	[SS 6.1.3a] DK1
• Students will be able to multiply fractions. Lab 5A Pg. 210	5.1	
• Students will be able to multiply mixed numbers.	5.2	
• Students will be able to divide fractions and mixed numbers. Lab 5B Pg. 220	5.3	
DCA-M #2		
CUMULATIVE ASSESSMENT 4 & 5		
SS= State Standard • SS = State Standard that is assessed DK = Depth of Knowledge assessed		

NOTE

- Use the problem-solving handbook to teach strategies that students will use throughout the semester. [SS 6.1.3b] DK1 & DK2
- Check the reasonableness of solutions throughout the semester. [SS 6.1.4a] DK1 & DK2
- Model Contextualized Problems using various Representations [SS 6.3.2a] DK1 & DK2

GRADE 6 (HOLT) SYLLABUS SEMESTER TWO

Concepts and Skills	Section	State Standard
Find Measures of Central Tendency		
• Students will be able to find the range, mean, median, and mode. Students will be able to compare mean, median, mode, and range from two sets of data (supplemental materials needed).	6.2	[SS 6.4.1c] DK1 & DK2 [SS 6.4.1d]
• Students will be able to find the mean, median, and mode when an outlier is added to the data.	6.3	[SS 6.4.1b] DK1 & DK2
Analyze and Organize Data		
• Students will be able to analyze data in bar graphs.	6.4	[SS 6.4.1b] DK1 & DK2
• Students will be able analyze stem-and-leaf plots.	6.9	[SS 6.4.1a, SS 6.4.1b] DK1&DK2
Students will be able to organize data in frequency tables and histograms (supplemental materials needed).	6.1,6.5	[SS 6.4.1a]
Find Probability and Predict Outcomes		
Students will be able to estimate the likelihood of an event and write and compare probabilities	11.1	[SS 6.4.3a]
Students will be able to show equivalence among fractions, decimals and percents. <i>Skill Review: Convert between decimals and fractions (lesson 4.4)</i>	8.7/8.8	[SS 6.1.1a]
• Students will be able to find the experimental probability of an event.	11.2	[SS 6.4.3c] DK1 & DK2
• Students will be able to find the theoretical probability of an event.	11.3	[SS 6.4.3a, 6.4.3b] DK1 & DK2
Students will be able to use probability to predict events.	11.6	[SS 6.4.2a]
DCA-M #3		
CUMULATIVE ASSESSMENT 6 & 11		
Determine Area, Perimeter & Transformations of 2-Dimensional Figures		
• Students will be able to find the perimeter of a polygon.	10.1	[SS 6.2.5d] DK1 & DK2
• Students will be able to find the area of rectangles, triangles, and parallelograms.	10.2	[SS 6.2.5e] DK1 & DK2
Students will be able to find the circumference and area of a circle.	10.5	
Students will be able to perform and describe single transformations of geometric shapes (translations, reflections, and rotations).	7.10	[SS 6.2.3a]
Identify 3-Dimensional Figures and Find Volume of Prisms		
Students will be able to name solid figures and identify the number of faces, edges, and vertices. Lab pg. 528 and Interactive lab at http://www.learner.org/interactives/geometry/index.html	10.6	[SS 6.2.1a]
• Students will be able to identify two-dimensional drawings of three-dimensional objects. Lab pg 528 and Interactive lab at http://www.learner.org/interactives/geometry/index.html	10.7	[SS 6.2.4a] DK1 & DK2
• Students will be able to find volume of rectangular prisms.	10.8	[SS 6.2.5f] DK1 & DK2
Demonstrate Number Sense with Integers		
• Students will be able to identify compare, order, and graph integers and find their opposite and absolute value.	9.1/9.2	[SS 6.1.1b, 6.1.1c, 6.1.1f] DK1
• Students will be able to locate and graph points on a coordinate plane.	6.6/9.3	[SS 6.2.2a] DK1
DCA-M #3B (paper/pencil) prior to NeSA-M		
At this point in curriculum 6th Grade Assessed State Standards have been covered		
Add and Subtract with Integers to Problem Solve		
Students will be able to add integers.	9.4	
Students will be able to subtract integers.	9.5	
Multiply and Divide with Integers to Problem Solve		
Students will be able to multiply integers.	9.6	
Students will be able to divide integers.	9.7	
CUMULATIVE ASSESSMENT 10 & 9		
Introduction to Ratio, Proportionality & Percent Applications		
Students will be able to write ratios and rates and find unit rates.	8.1	
Students will be able to write and solve proportions.	8.2	
Students will be able to make conversions within the customary system.	8.3	[SS 6.2.5a]
Students will be able to find the missing value in a percent problem. <i>Skills review: Show equivalence among fractions, decimals and percents (8.7&8.8)</i>	8.9	
Students will be able to use percents to solve practical problems.	8.10	
ReASSESS Unit 8 on Individual Student Basis		
SS= State Standard	• SS = State Standard that is assessed	DK = Depth of Knowledge assessed

NOTE

- Use the problem-solving handbook to teach strategies that students will use throughout the semester. [SS 6.1.3b] DK1 & DK2
- Check the reasonableness of solutions throughout the semester. [SS 6.1.4a] DK1 & DK2
- Model Contextualized Problems using various Representations [SS 6.3.2a] DK1 & DK2