



TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
1st Term Aug 10 th – Oct 7 th				60 Total Items 50 Core/10 Field Test
	2. Develop and apply the basic operations of rational numbers to algebraic and numerical tasks. Create and apply algebraic expressions and equations.			13
Week 1 8/10 – 8/14	<i>*2e.</i> Identify properties using variables and apply them in solving problems: zero property of multiplication, inverse properties of addition/subtraction and multiplication/division, commutative and associative properties of addition and multiplication, identity properties of addition and multiplication, and distributive properties of multiplication over addition and subtraction.	1	Basic	
	1. Apply concepts of rational numbers and perform basic operations emphasizing the concepts of ratio, proportion, and percent with and without the use of calculators.			12
Week 2 8/17 – 8/21	1d. <u>Evaluate</u> and estimate powers and square roots of real numbers.	2	Proficient	
Week 3 8/24 – 8/28	1a. Use the order of operations to simplify and/or evaluate whole numbers (including exponents and grouping symbols).	1	Proficient	
Week 4 8/31 – 9/4	1e. Explain the relationship between standard form and scientific notation.	1	Proficient	
Week 4 8/31 – 9/4	<i>*1f.</i> Multiply and divide numbers written in scientific notation.	1	Proficient	

7th Grade Mathematics

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Week 5 9/7 – 9/11	1h. Solve contextual problems requiring the comparison, ordering and application of integers.	2	Proficient	
Week 5 9/7 – 9/11	1b. Solve problems involving addition, subtraction, multiplication, and division of rational numbers (integers). Express answers in simplest form.	2	Proficient	
	2. Develop and apply the basic operations of rational numbers to algebraic and numerical tasks. Create and apply algebraic expressions and equations.			13
Week 6 9/14 – 9/18	<i>*2c.</i> Formulate algebraic <u>expressions</u> , <u>equations</u> , and inequalities to reflect a given situation and vice versa.	2	Proficient	
Week 6 9/14 – 9/18	2b. Solve equations that represent algebraic and real-world problems using multiple methods including the real number properties.	1	Proficient	
	1. Apply concepts of rational numbers and perform basic operations emphasizing the concepts of ratio, proportion, and percent with and without the use of calculators.			12
Week 7 9/21 – 9/25	1b. Solve problems involving addition, subtraction, multiplication, and division of rational numbers (decimals). Express answers in simplest form	2	Proficient	
Week 7 9/21 – 9/25	1c. Convert among <u>decimals</u> , <u>fractions</u> , <u>mixed numbers</u> , and percents.	1	Basic	

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	4. Apply appropriate techniques, tools, and formulas to determine measurements with a focus on real-world problems. Recognize that formulas in mathematics are generalized statements about rules, equations, principles, or other logical mathematical relationships.			7
Week 8 9/28 – 10/2	4a. Convert from one unit to another, perform basic operations, and solve real-world problems using standard (English and <u>metric</u>) measurements within the same system.	2	Proficient	
	2. Develop and apply the basic operations of rational numbers to algebraic and numerical tasks. Create and apply algebraic expressions and equations.			13
Week 8 9/28 – 10/2	2a. Recognize, describe, and state the rule of generalized numerical and geometric patterns using tables, graphs, words and symbols.	2	Basic <i>(Recognize)</i> Proficient <i>(Describe)</i>	
Week 9 10/5 – 10/9	Review for 9 Weeks test			



TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
2nd Term Oct 12 th – Dec 15 th	2. Develop and apply the basic operations of rational numbers to algebraic and numerical tasks. Create and apply algebraic expressions and equations.			13
Week 1 10/12 – 10/16	<i>*2c. Formulate algebraic expressions, equations, and inequalities to reflect a given situation and vice versa.</i>	2	Proficient	
Week 1 10/12 – 10/16	2b. Solve equations that represent algebraic and real-world problems using multiple methods including the real number properties.	1	Proficient	
Week 1 10/12 – 10/16	2a. Recognize, describe, and state the rule of generalized numerical and geometric patterns using tables, graphs, words and symbols.	2	Basic (Recognize) Proficient (Describe)	
Week 1 10/12 – 10/16	2d. Complete a function table based on a given rule and vice versa.	1	Proficient	
Week 1 10/12 – 10/16	<i>*2f.</i> Predict the shape of a graph from a function table.	2	Proficient	
	1. Apply concepts of rational numbers and perform basic operations emphasizing the concepts of ratio, proportion, and percent with and without the use of calculators.			12
Week 2 10/19 – 10/22	1b. Solve problems involving addition, subtraction, multiplication, and division of rational numbers (fractions). Express answers in simplest form.	2	Proficient	

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TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
Week 2 10/19 – 10/22	1i. Develop a logical argument to demonstrate the ‘denseness’ of rational numbers.	3	Proficient	
	4. Apply appropriate techniques, tools, and formulas to determine measurements with a focus on real-world problems. Recognize that formulas in mathematics are generalized statements about rules, equations, principles, or other logical mathematical relationships.			7
Week 3 10/19 – 10/22	4a. Convert from one unit to another, perform basic operations, and solve real-world problems using standard (customary) measurements within the same system.	2	Proficient	
Week 4 11/2 – 11/6	*4d. Solve problems involving scale factors using ratios and proportions.	2	Proficient	
	1. Apply concepts of rational numbers and perform basic operations emphasizing the concepts of ratio, proportion, and percent with and without the use of calculators.			12
Week 5 11/9 – 11/13	1c. Convert among decimals, fractions, mixed numbers, and percents.	1	Basic	
Week 6 11/16 – 11/20	1g. Solve real-life problems involving unit price, unit rate, sales price, sales tax, discount, simple interest, commission, and rates of commission.	1	Proficient	
Week 7 & 8 11/30 – 12/11	Review Semester Objectives			
Week 9 12/14 – 12/18	Review for District Assessment			

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3rd Term Jan 5 th – Mar 9 th	1. Apply concepts of rational numbers and perform basic operations emphasizing the concepts of ratio, proportion, and percent with and without the use of calculators.			12
Week 1 1/5 – 1/6	1d. Evaluate and estimate powers and square roots of real numbers.	2	Proficient	
	3. Apply geometric relationships of angles, two- and three-dimensional shapes, and transformations.			
Week 1 & 2 1/7 – 1/15	3f. Construct and classify angles.	2	Basic <i>(Construct)</i> Proficient <i>(Classify)</i>	
Week 1 & 2 1/7 – 1/15	3c. Justify the congruence or symmetry of two figures.	2	Proficient	
Week 1 & 2 1/7 – 1/15	*3d. Perform translations (rigid and non-rigid motions) on two-dimensional figures using the coordinate plane.	2	Proficient	
	4. Apply appropriate techniques, tools, and formulas to determine measurements with a focus on real-world problems. Recognize that formulas in mathematics are generalized statements about rules, equations, principles, or other logical mathematical relationships.			7
Week 3 & 4 1/19 – 1/29	4b. Use formulas and strategies, such as decomposition, to compute the perimeter and area of triangles, parallelograms, trapezoids, the circumference and area of circles, and find the area of more complex shapes.	2	Proficient	

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	5. Organize and interpret data. Analyze data to make predictions.			8
Week 5 2/1 – 2/5	5c. Construct and interpret line graphs, frequency tables, circle graphs, box-and-whisker plots, and scatter plots to generalize trends from given data.	2	Basic <i>(Construct)</i> Proficient <i>(Interpret)</i>	
Week 5 2/1 – 2/5	*5b. Determine how outliers affect mean, median, mode, or range.	2	Proficient	
Week 6 2/8 – 2/12	5a. Use proportions, estimates, and percentages to construct, interpret, and make predictions about a population based on histograms or circle graph representations of data from a sample.	2	Proficient	
Week 7 2/17 – 2/19	Review Objectives			
Week 8 2/22 – 2/26	Review Objectives			
Week 9 3/1 – 3/5	Review Objectives			
Week 10 3/8 – 3/11	Review for District Assessment			

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TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
4th Term Mar 12 th – May 21 st	1. Apply concepts of rational numbers and perform basic operations emphasizing the concepts of ratio, proportion, and percent with and without the use of calculators.			12
Week 1 3/15 – 3/19	1d. <i>Evaluate and estimate powers and square roots of real numbers.</i>	2	Proficient	
	3. Apply geometric relationships of angles, two- and three-dimensional shapes, and transformations.			10
Week 1 3/15 – 3/19	3e. Create an argument using the Pythagorean Theorem principals to show that a triangle is a right triangle.	2	Proficient	
Week 2 3/22 – 3/26	3a. Classify and compare three-dimensional shapes using their properties.	1	Basic (Classify) Proficient (Compare)	
Week 2 3/22 – 3/26	*3b. Construct two-dimensional representations of three-dimensional objects.	2	Proficient	
	5. Organize and interpret data. Analyze data to make predictions.			8
Week 3 4/6 – 4/9	5d. Determine probabilities through experimentation, simulation, or calculation. (Note: Make and test conjectures and predictions by calculating the probability of an event.)	2	Proficient	

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	4. Apply appropriate techniques, tools, and formulas to determine measurements with a focus on real-world problems. Recognize that formulas in mathematics are generalized statements about rules, equations, principles, or other logical mathematical relationships.			7
Week 4 4/12 – 4/16	<i>*4c.</i> Develop and justify geometric formulas for volume and surface area of cylinders, pyramids, and prisms.	3	Proficient	
Week 5 4/12 – 4/16	Review for MCT2			
Week 6 4/19 – 4/23	Review for MCT2			
Week 7 4/26 – 4/30	Review for MCT2			
Week 8 5/4 – 5/7	Review for MCT2			
Week 9 5/10 – 5/14	MCT2 May 11th – May 13th			