TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
1st Nine Weeks **Essential Vocabulary** **Absolute Value** **Algebraic Expressions** **Analyze** **Commutative Property** **Difference** **Distributive Property** **Dividend** **Divisor** **Equations** **Equivalent** **Expressions** **Evaluate**	**Term 1 will have skills from Competency 1 and Competency 2.** **1. Analyze numbers using place value and prime factorization. Solve problems involving basic operations of rational numbers.** **2. Use algebraic functions, patterns, and language across a variety of contexts.**			**15** **10**
	1a. <u>Compare and order rational numbers</u> (<u>whole numbers</u>, <u>only) using symbols (<, >, and =) and a number line.</u>	**1**	**Proficient**	
	1b. <u>Use estimation strategies to determine the reasonableness of results in a variety of situations including rational number</u> (<u>whole numbers only</u>) <u>computations.</u>	**2**	**Proficient**	

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
1st Nine Weeks **Essential Vocabulary** **Formulate** **Justify** **Inequality** **Integers** **Identity Property** **Interpret** **Inverse** **Inverse Property** **Opposites** **Order of Operations** **Product** **Properties**	**2d. State the following 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** • **Distributive properties of multiplication over addition and subtraction** ****Whole numbers only**	**1**	**Proficient**	
	2a. Solve simple equations using guess-and-check, diagrams, properties, or inspection, explaining the process used (whole numbers only).	**2**	**Basic (Solve) Proficient (Explain)**	
	2c. Formulate algebraic expressions, equations, and inequalities to reflect a given situation (whole numbers only).	**2**	**Proficient**	
	1a. Compare and order rational numbers (*whole numbers* and decimals only) using symbols (<, >, and =) and a number line.	**1**	**Proficient**	

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
1st Nine Weeks **Essential Vocabulary** **Quotient** **Rational numbers** **Reasonableness** **Remainder** **Solution** **Sum** **Variable** **Zero Property**	**1b. Use estimation strategies to determine the reasonableness of results in a variety of situations including rational number (*whole numbers* and decimal numbers only) computations.**	**2**	**Proficient**	
	2a. Solve simple equations using guess-and-check, diagrams, properties, or inspection, explaining the process used *(whole numbers and* decimal addition and subtraction).	**2**	**Basic (Solve) Proficient (Explain)**	
	2d. State the following 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** • **Distributive properties of multiplication over addition and subtraction** **** *Whole numbers* and decimal numbers only**	**1**	**Proficient**	
	1j. Explain the meaning of multiplication and division of rational numbers (whole numbers and decimals.)	**2**	**Proficient**	

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
1st Nine Weeks	**1i. <u>Multiply four-digit numbers by two-digit numbers (including whole numbers and decimals)</u>.**	**1**	**Basic**	
	1e. Solve problems by dividing whole and decimal numbers by decimals and interpret the quotient and remainder within the problem context.	**2**	**Proficient**	
	2c. <u>Formulate algebraic expressions, equations, and inequalities to reflect a given situation</u> (*whole numbers* and <u>decimals</u>*)*.	**2**	**Proficient**	
	2d. State the following 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*** • ***Distributive properties of multiplication over addition and subtraction*** *** Whole numbers and decimal numbers only***	**1**	**Proficient**	
	1a. <u>Compare and order rational numbers</u> (*whole numbers decimal numbers*, and <u>integers</u>) <u>using symbols (<, >, and =) and a number line.</u>	**1**	**Proficient**	

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
1st Nine Weeks	**1k. Explain the meaning and relationship between absolute value and opposites.**	**2**	**Proficient**	
	1g. Model addition and subtraction of integers with physical materials and the number line.	**2**	**Proficient**	
	First Term District Testing			
2nd Nine Weeks **Essential Vocabulary** **Composite Number** **Compute** **Denominator** **Factors (GCF)** **Function Table**	**Term 2 will have skills from Competency 1 and Competency 2.** **1. Analyze numbers using place value and prime factorization. Solve problems involving basic operations of rational numbers.** **2. Use algebraic functions, patterns, and language across a variety of contexts.**			**15** **10**
	1c. Determine the Greatest Common Factor (GCF) and Least Common Multiple (LCM) of two numbers.	**2**	**Proficient**	

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
2nd Nine Weeks **Essential Vocabulary** **Improper Fraction** **Lowest Terms** **Mixed Numerals** **Multiples (LCM)** **Numerator** **Percent** **Prime Factorization** **Prime Number** **Proper Fraction** **Reciprocal** **Reduce**	**1f. Explain the relationship(s) among fractions, decimals and percents and model and represent a specific quantity in multiple ways.**	**2**	**Proficient**	
	1a. Compare and order rational numbers (*whole numbers, decimals, integers*, and fractions) using symbols (<, >, and =) and a number line.	**1**	**Proficient**	
	1d. Compute using basic operations with fractions and mixed numbers (addition and subtraction of like and unlike denominators. Express answers in simplest form.	**1**	**Basic**	
	1b. Use estimation strategies to determine the reasonableness of results in a variety of situations including rational number (*whole numbers, decimal numbers,* and fractions) computations.	**2**	**Proficient**	

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
2nd Nine Weeks **Essential Vocabulary** **Simplest Form** **Simplify**	***2d.*** **State the following 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** • **Distributive properties of multiplication over addition and subtraction** *** *Whole numbers, decimal numbers,* and fractions**	**1**	**Proficient**	
	1c. Determine the *Greatest Common Factor (GCF)* and Least Common Multiple (LCM) of two numbers.	**2**	**Proficient**	
	1d. Compute using basic operations with fractions and mixed numbers (*addition and subtraction of like and unlike denominators* and multiplication and division). Express answers in simplest form.	**1**	**Basic**	
	2a. Solve simple equations using guess-and-check, diagrams, properties, or inspection, explaining the process used *(whole numbers, decimal numbers, and fractions).*	**2**	**Basic (Solve) Proficient (Explain)**	

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
2nd Nine Weeks	**2c. <u>Formulate algebraic expressions, equations, and inequalities to reflect a given situation</u> (*whole numbers, decimals,* and <u>fractions</u>*).***	**2**	**Proficient**	
	1j. <u>Explain the meaning of multiplication and division of rational numbers</u> (*whole numbers, decimal numbers,* and <u>fractions.</u>)	**2**	**Proficient**	
	1a. Compare and order rational numbers (whole numbers, decimals, integers, and fractions) using symbols (<, >, and =) and a number line.	**1**	**Proficient**	
	1k. Explain the meaning and relationship between absolute value and opposites.	**2**	**Proficient**	
	1g. Model addition and subtraction of integers with physical materials and the number line.	**2**	**Proficient**	
	1b. *Use estimation strategies to determine the reasonableness of results in a variety of situations including rational number computation*.	**2**	**Proficient**	
	2a. Solve simple equations using guess-and-check, diagrams, properties, or inspection, explaining the process used.	**2**	**Basic (Solve) Proficient (Explain)**	

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
2nd Nine Weeks	**2b. Complete a function table based on a given rule.**	**2**	**Proficient**	
	2e. Describe a rule for a function table using words, symbols, and points on a graph and vice versa.	**2**	**Proficient**	
	First Semester District Testing			

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
3rd Nine Weeks **<u>Essential Vocabulary</u>** **Angles (Degrees):** • **Right** • **Acute** • **Obtuse** • **Straight** **Coordinates** **Congruent** **Dilation** **English Units** **Graphs:** • **Line** • **Double bar** • **Frequency Plots** • **Stem-and-Leaf plots** • **Histograms** • **Box and whisker**	**Term 3 will have skills from Competency 1, Competency 3, Competency 4, and Competency 5.** **1. Analyze relationships among numbers and the four basic operations, compute fluently, and make reasonable estimates.** **3. Analyze geometric relationships of lines, angles, two- and three-dimensional shapes, and transformations.** **4. Apply geometric formulas and standard (English and metric) units of measurement in mathematical and real-life situations.** **5. Organize, interpret, analyze, and display data to predict trends.**			**15** **9** **8** **8**
	5b. Determine how changes in data affect mean, median, mode and range.	**2**	**Proficient**	
	5a. Construct, interpret, and explain line graphs, double bar graphs, frequency plots, stem-and-leaf plots, histograms, and box and whisker plots.	**2**	**Basic (Construct) Proficient (Interpret and Explain)**	
	5c. Predict trends based on graphical representation.	**3**	**Proficient**	

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
3rd Nine Weeks **<u>Essential Vocabulary</u>** **Image** **Interval** **Mean** **Measure of Central Tendency** **Median** **Metric Units** **Mode** **Percents** **Polygons** • **Regular** • **Irregular** **Predict** **Pre-image** **Probability**	**3e. Explain the relationships between corresponding parts of the pre-image and image of a dilation.**	**2**	**Proficient**	
	4d. Use scale factors to perform dilations and solve ratio and proportion problems.	**2**	**Proficient**	
	1f. <u>Explain the relationship(s) among</u> *<u>fractions, decimals</u>* and <u>percents and model and represent a specific quantity in multiple ways.</u>	**2**	**Proficient**	
	1h. Solve problems by finding the percentage of a number including percentages greater than 100 and less than 1.	**2**	**Proficient**	
	3d. Identify, estimate, and compare right, acute, and obtuse angles.	**1**	**Basic (Identify) Proficient (Estimate and Compare)**	
	3c. Draw, label, and classify polygons to include regular and irregular shapes. Identify congruent and symmetrical figures.	**1**	**Basic (Label) Proficient (Draw and Classify)**	

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
3rd Nine Weeks **<u>Essential Vocabulary</u>** **Properties of shapes and figures** **Proportion** **Range** **Ratio** **Scale** **Statistics** **Symmetrical** **Transformation** **Trends** **Two-Dimensional Figures**	**3a. Compare, classify, and construct transformations (reflections, translations, and rotations).**	**3**	**Basic (Construct) Proficient (Compare and Classify)**	
	4a. Convert units within a given measurement system to solve problems.	**1**	**Proficient**	
	4f. <u>Apply techniques and tools to accurately find length</u>, area, and angle measures <u>to appropriate levels of precision</u>.	**1**	**Basic**	
	4f. <u>Apply techniques and tools to accurately find *length,*</u> area, and <u>angle measures</u> <u>to appropriate levels of precision</u>.	**1**	**Basic**	
	Third Term District Testing			

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
4th Nine Weeks **<u>Essential Vocabulary</u>** **Area** **Calculate** **Circumference** **Diameter** **Edges** **Faces** **Formula(s)** **Perimeter** **Pi** **Radius** **Three-Dimensional Figures (Prisms)**	**Term 4 will have skills from Competency 3 and Competency 4.** **3. Analyze geometric relationships of lines, angles, two- and three-dimensional shapes, and transformations.** **4. Apply geometric formulas and standard (English and metric) units of measurement in mathematical and real-life situations.**			**9** **8**
	4f. <u>Apply techniques and tools to accurately find</u> *length,* <u>area,</u> and *angle measures* <u>to appropriate levels of precision</u>.	**1**	**Basic**	
	4b. Calculate the perimeter and area of regular and irregular shapes using a variety of methods.	**2**	**Proficient**	
	4g. Explain the relationship of circumference of a circle to its diameter, linking to *pi*.	**1**	**Proficient**	
	4c. Determine the radius, diameter, and circumference of a circle.	**1**	**Proficient**	
	3b. Construct three-dimensional figures using manipulatives and generalize the relationships among vertices, faces, and edges (such as Euler's Formula).	**3**	**Basic**	
4th Nine Weeks	**4e. Predict and calculate volume of a prisms.**	**2**	**Proficient**	

TERM	COMPETENCY/OBJECTIVE	DOK LEVEL	PLD	BLUEPRINT DATA
Essential Vocabulary **Vertices** **Volume**	**Second Semester District Testing**			