DARUL ARQAM ACADEMY NORTH

Scope and Sequence

Grade 5 Math

1st Quarter			
Resources: Textbooks, Workbook and TPT (teachers pay teachers)			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories**
1	**Welcome/ Orientation**	**Survey – getting to know you** **Collect & log Supplies received** **Classroom Rules** **Curriculum overview**	
2	**Topic 1: Place Value** **Lesson 1- 6**	• Determine the number of millions in one billion. • Describe a decimal using place value. • Compare and order decimals through the thousandths place. • Round decimal to the nearest whole number to prepare students for learning how to round decimals. • Practice writing to explain answers and problem-solving strategies.	5.2 Read and write whole numbers through billions. 5.2 Represent whole numbers through billions with expanded notation. 5.2 Understand place value relationships for whole numbers through billions 5.2A Read and write decimals through thousandths 5.2A Represent decimals through thousandths with expanded notation. 5.2B compare and order decimals through thousandths. 5.2B Represent decimal comparisons with >, <, or =. 5.2C Round decimals to the nearest whole number, tenth, or hundredth.
3	**Topic 2: Adding and Subtracting Whole Numbers and Decimals**	• Use the properties of addition to solve problems mentally.	5.3K Use mental math to add and subtract decimals 5.3A Estimate decimals sums and differences.

DARUL ARQAM ACADEMY NORTH

Scope and Sequence

Grade 5 Math

	Lesson 1- 9	• Use rounding and compatible numbers to estimate sums and differences of whole numbers. • Compute sums and differences of two large whole numbers. • Add decimals in the hundredths aligning their decimal points. • Subtract decimals in the hundredths place by using various strategies.	5.3K Use the standards algorithms to add and subtract whole numbers through millions.
4	**Continuation of** **Topic 2: Adding and Subtracting Whole Numbers and Decimals** **Lesson 1- 9**	• Use the properties of addition to solve problems mentally. • Use rounding and compatible numbers to estimate sums and differences of whole numbers. • Compute sums and differences of two large whole numbers. • Add decimals in the hundredths aligning their decimal points. • Subtract decimals in the hundredths place by using various strategies.	5.3K Use mental math to add and subtract decimals 5.3A Estimate decimals sums and differences. 5.3K Use the standards algorithms to add and subtract whole numbers through millions.
5	**Topic 3: Multiplying Whole Numbers** **Lesson 1- 7**	• Use rounding or compatible number to estimate products of whole numbers.	5.3A Estimate products of 3-digit and 2-digit whole numbers.

DARUL ARQAM ACADEMY NORTH

Scope and Sequence

Grade 5 Math

		• Multiply 3-digit numbers by 2-digit numbers. • Use number sense when finding the product of a 3digit number by a 2digit number. • Write a real-world problem to a product of multi-digit numbers and solve the problem.	5.3B Use the standard algorithm to multiply whole numbers with up to 3-digit by2-digit numbers. 5.3E Multiply with money 5.1 C Select tools, including real objects, manipulative, paper and pencil, and technology as appropriate, techniques including mental math, estimation, number sense to solve problems.
6	**Continuation of** **Topic 3: Multiplying Whole Numbers** **Lesson 1- 7**	• Use rounding or compatible number to estimate products of whole numbers. • Multiply 3-digit numbers by 2-digit numbers. • Use number sense when finding the product of a 3digit number by a 2digit number. Write a real-world problem to a product of multi-digit numbers and solve the problem	5.3A Estimate products of 3-digit and 2-digit whole numbers. 5.3B Use the standard algorithm to multiply whole numbers with up to 3-digit by2-digit numbers. 5.3E Multiply with money 5.1 C Select tools, including real objects, manipulative, paper and pencil, and technology as appropriate, techniques including mental math, estimation, number sense to solve problems.
7	**Topic 4: Multiplying Decimals** **Lesson 1- Lesson 10**	• Find a pattern in products when multiplying a decimal by a power of 10. • Model multiplying a whole numberby a decimal using a hundredths grid.	5.3E Use number sense to place the decimal point in products of decimals and whole numbers. 5.3D Use models to multiply decimals and whole numbers or two decimals with products to the hundredths.

		• Model multiplication of decimals in a hundredths grid. • Solve a multiplestep problem that involves multiplying decimals and money.	5.3E Use the standard algorithm to multiply two decimals with products to the hundredths. 5.3E Multiply with money
8	**Continuation of** **Topic 4: Multiplying Decimals** **Lesson 1- Lesson 10**	• Find a pattern in products when multiplying a decimal by a power of 10. • Model multiplying a whole numberby a decimal using a hundredths grid. • Model multiplication of decimals in a hundredths grid. • Solve a multiplestep problem that involves multiplying decimals and money.	5.3E Use number sense to place the decimal point in products of decimals and whole numbers. 5.3D Use models to multiply decimals and whole numbers or two decimals with products to the hundredths. 5.3E Use the standard algorithm to multiply two decimals with products to the hundredths. 5.3E Multiply with money
9	**Review of all 4 above topics**		

2nd Quarter
Resources: Textbook, Workbook and TPT

DARUL ARQAM ACADEMY NORTH

Scope and Sequence

Grade 5 Math

Week	Unit/Lesson	Learning Objectives	Reporting Categories
1	**Topic 5: Dividing Whole Numbers** **Lesson 1-11**	• Find patterns when dividing multiples of ten. • Use mental math with compatible numbers to find quotients with 2-digit divisors. • Use array and area models to represent multi-digit division. • Use metal math to estimate quotients when the 2-digit Divisor is a multiple of ten	5.3C Use patterns to divide whole numbers with up to 4 digits by multiples of 10. 5.3A Estimate quotients of dividends with up to 4 digits and 2-digit divisors. 5.3C Use models to divide whole numbers with up to 4 digits by 2-digit numbers 5.1A Apply mathematics to problem arising in everyday life, society and work place.
2	**Continuation of** **Topic 5: Dividing Whole Numbers** **Lesson 1-11**	• Divide 3-digit numbers by 2-digit numbers with and without remainders. • Find 2-digit quotients when dividing 3-digit numbers by 2-digit numbers. • Solve problems involving division of numbers with 4 digits by 2-digit divisors. Use estimation to tell whether a quotient is reasonable or not	5.3C Use the standard algorithm to find 1digit quotients when dividing whole numbers by 2-digit divisors when dividing whole numbers by 2-digit divisors. 5.3C Use the standard algorithm to find 2-digit quotients when dividing whole numbers by 2-digit divisors. 5.3C Use the standard algorithm to find 3-digit quotients when dividing whole numbers by 2-digit divisors 5.1B Use problem solving model that incorporates analyzing given information
3	**Topic 6: Dividing Decimals** **Lesson 1-9**	• Use patterns to divide with decimals. • Estimate quotients when dividing with decimals.	5.3G Use patterns to divide decimals by 10 or 100. 5.3A Estimate quotients involving decimals. 5.3F Use models to divide decimals by 1-digit whole

DARUL ARQAM ACADEMY NORTH

Scope and Sequence

Grade 5 Math

		• Find the quotient when dividing a decimal by a 1-digit whole number. • Use any strategy to solve a problem involving division of • a decimal by 2-digit whole number	numbers. 5.3F Use models to divide decimals by 2-digit whole numbers.
4	**Continuation of** **Topic 6: Dividing Decimals** **Lesson 1-9**	• Use patterns to divide with decimals. • Estimate quotients when dividing with decimals. • Find the quotient when dividing a decimal by a 1-digit whole number. • Use any strategy to solve a problem involving division of a decimal by 2-digit whole number	5.3G Use patterns to divide decimals by 10 or 100. 5.3A Estimate quotients involving decimals. 5.3F Use models to divide decimals by 1-digit whole numbers. 5.3F Use models to divide decimals by 2-digit whole numbers.
5	**Topic 7: Collect, Organize and Interpret Data** **Lesson 1-11**	• Analyze and use information in a dot plot. • Organize and represent measurement data. • Use bar graphs to answer questions and solve problems. • Display survey results in a bar graph.	5.9C solve one and two-step problems by interpreting dot plots. 5.9A make dot plots to organize and represent numerical data including measurement data. 5.9C solve one and two-step problems by interpreting bar graphs.

DARUL ARQAM ACADEMY NORTH

Scope and Sequence

Grade 5 Math

		• Illustrate how to read data in a steam and leaf plot. • Determine if there is a relationship between the two sets of values ina table.	5.9C solve one and two-step problems by interpreting scatterplots. 5.9B Make scatterplots to organize and represent discrete paired data
6	**Continuation of** **Topic 7: Collect, Organize and Interpret Data** **Lesson 1-11**	• Analyze and use information in a dot plot. • Organize and represent measurement data. • Use bar graphs to answer questions and solve problems. • Display survey results in a bar graph. • Illustrate how to read data in a steam and leaf plot. • Determine if there is a relationship between the two sets of values ina table.	5.9C solve one and two-step problems by interpreting dot plots. 5.9A make dot plots to organize and represent numerical data including measurement data. 5.9C solve one and two-step problems by interpreting bar graphs. 5.9C solve one and two-step problems by interpreting scatterplots. 5.9B Make scatterplots to organize and represent discrete paired data
7	**Topic 8: Add and Subtract Fractions and Mixed Numbers** **Lesson 1-11**	• Use basic math facts to list and compare the factors of a number. • Find equivalent fractions. • Use area models to help write fractions in simplest fractions. • Use a number lie or fraction strips to estimate the sum of two fractions.	5.4A Identify prime and composite numbers. 5.3H Find equivalent fractions 5.3A Estimate fraction sums and differences. 5.3H write fractions in simplest form. 5.3H use models and properties to add fractions with unlike denominators. 5.3H Use models and properties to subtract fractions with Unlike denominators

DARUL ARQAM ACADEMY NORTH

Scope and Sequence

Grade 5 Math

		• Find and represent fractions of the same whole with unequal denominators. • Use different problem-solving strategies to add fractions with unlike denominators. • Solve real world problem involving subtraction of fractions with unlike denominators. • Use a picture to help decide which operation to use when writing.	
8	**Continuation of** **Topic 8: Add and Subtract Fractions and Mixed Numbers** **Lesson 1-11**	• Use basic math facts to list and compare the factors of a number. • Find equivalent fractions. • Use area models to help write fractions in simplest fractions. • Use a number lie or fraction strips to estimate the sum of two fractions. • Find and represent fractions of the same whole with unequal denominators.	5.4A Identify prime and composite numbers. 5.3H Find equivalent fractions 5.3A Estimate fraction sums and differences. 5.3H write fractions in simplest form. 5.3H use models and properties to add fractions with unlike denominators. 5.3H Use models and properties to subtract fractions with unlike denominators

		• Use different problem-solving strategies to add fractions with unlike denominators. • Solve real world problem involving subtraction of fractions with unlike denominators. • Use a picture to help decide which operation to use when writing	
9	**Benchmark Reinforcement/Review of all 8 Chapters**		

DARUL ARQAM ACADEMY NORTH

Scope and Sequence

Grade 5 Math

3rd Quarter			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories**
1	**Topic 9: Multiply and Divide Fractions** **Lesson 1-8**	• Describe fractions as multiples of unit fractions. • Represent and solve problems using an area model. • Consider various strategies for multiplying a fraction and whole number. • Use pictorial models and other strategies when dividing a whole number by a fraction. • Analyze information and find and solve hidden questions to solve multi-step problems.	5.3I Express fractions as multiples of unit fractions. 5.3I multiply fractions and whole numbers. 5.3J use models to divide unit fractions by whole numbers. 5.3L Divide unit fractions by whole numbers.
2	**Continuation of** **Topic 9: Multiply and Divide Fractions** **Lesson 1-8**	• Describe fractions as multiples of unit fractions. • Represent and solve problems using an area model. • Consider various strategies for multiplying a fraction and whole number. • Use pictorial models and other strategies when dividing a whole number by a fraction.	5.3I Express fractions as multiples of unit fractions. 5.3I multiply fractions and whole numbers. 5.3J use models to divide unit fractions by whole numbers. 5.3L Divide unit fractions by whole numbers.

		• Analyze information and find and solve hidden questions to solve multi-step problems.	
3	**Topic 10: Algebraic Patterns, Coordinate Plane** **Lesson 1-12**	• Name and graph points in the first quadrant of the coordinate plane. • Complete a table to make a graph based on a situation that can be described by an addition rule. • identify multiplicative patterns when graphing points in the first quadrant of the coordinate plane.	5.8A Understand the parts of a coordinate plane including the x-axis, y-axis, and origin. 5.8B Use an ordered air to plot a point on a coordinate grid. 5.8B Identify the ordered pairs for a point of a coordinate grid. 5.8C Graph ordered pairs of numbers from a table showing an additive pattern. 5.8C Graph ordered pairs of numbers from a table showing a multiplicative pattern. 5.4C Graph an equation of the form y=ax or y=x+a on a coordinate plane. 5.4D Distinguish between additive and multiplicative patterns in tables and graphs.
4	**Continuation of** **Topic 10: Algebraic Patterns, Coordinate Plane** **Lesson 1-12**	• Name and graph points in the first quadrant of the coordinate plane. • Complete a table to make a graph based on a situation that can be described by an addition rule. • identify multiplicative patterns when graphing points in the first	5.8A Understand the parts of a coordinate plane including the x-axis, y-axis, and origin. 5.8B Use an ordered air to plot a point on a coordinate grid. 5.8B Identify the ordered pairs for a point of a coordinate grid. 5.8C Graph ordered pairs of numbers from a table showing an additive pattern.

		quadrant of the coordinate plane.	5.8C Graph ordered pairs of numbers from a table showing a multiplicative pattern. 5.4C Graph an equation of the form y=ax or y=x+a on a coordinate plane. 5.4D Distinguish between additive and multiplicative patterns in tables and graphs.
5	**Continuation of** **Topic 10: Algebraic Patterns, Coordinate Plane** **Lesson 1-12**	• Name and graph points in the first quadrant of the coordinate plane. • Complete a table to make a graph based on a situation that can be described by an addition rule. • identify multiplicative patterns when graphing points in the first quadrant of the coordinate plane.	5.8A Understand the parts of a coordinate plane including the x-axis, y-axis, and origin. 5.8B Use an ordered air to plot a point on a coordinate grid. 5.8B Identify the ordered pairs for a point of a coordinate grid. 5.8C Graph ordered pairs of numbers from a table showing an additive pattern. 5.8C Graph ordered pairs of numbers from a table showing a multiplicative pattern. 5.4C Graph an equation of the form y=ax or y=x+a on a coordinate plane. 5.4D Distinguish between additive and multiplicative patterns in tables and graphs.
6	**Topic 11: Measurement Units and Measurement Conversions** **Lesson 1-9**	• Convert customary units of length. • Convert customary units of capacity. • Convert customary units of weight.	5.7A solve problems by calculating conversions within a measurement system, customary or metric.

		• Measure the same length using different metric units. • Convert metric units of capacity • Convert metric units of mass.	
7	**Continuation of** **Topic 11: Measurement Units and Measurement Conversions** **Lesson 1-9**	• Convert customary units of length. • Convert customary units of capacity. • Convert customary units of weight. • Measure the same length using different metric units. • Convert metric units of capacity • Convert metric units of mass.	5.7A solve problems by calculating conversions within a measurement system, customary or metric.
8	**Topic 12: Measure Shapes and Solids** **Lesson 1-9**	• Find the perimeter of a polygon. • Use formulas to find the area of squares and rectangles. • Represent the process of breaking a figure into parts to find is area.	5.4H solve problems related to perimeter. 5.4H solve problems related to area of a rectangle or square. 5.4H Sole problems related to both perimeter and area. 5.4H Find the area of a composite shape.

		• Construct models to find the numberof cubes that make up a rectangular prism. • Solve real world problems involving volume of a rectangular prism. • Analyze a composite solid figure, identify the rectangular prism, and calculate its total volume.	
9	**Continuation of** **Topic 12: Measure Shapes and Solids** **Lesson 1-9**	• Construct models to find the numberof cubes that make up a rectangular prism. • Solve real world problems involving volume of a rectangular prism. • Analyze a composite solid figure, identify the rectangular prism, and calculate its total volume	5.6A Understand unit cubes and that volume is found by filling a solid with unit cubes. 5.6B Find the volume of a rectangular prism by multiplying the number of layers by the numberof cubes in each layer. 5.4G Use modelto develop the formulas for the volume of a rectangular prism and a cube.

DARUL ARQAM ACADEMY NORTH

Scope and Sequence

Grade 5 Math

4th Quarter			
Resources:			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories**
1	**Topic 13: Personal Financial Literacy** **Lesson 1 – Lesson 8**	• List ways country governments can raise money. • Explain why they think gross income and net income are different. • Explore different ways to pay for an item and discuss which they like better. • Create a balanced budget for a given amount of income.	5.10 A define income tax, payroll tax, sales tax, and property tax. 5.10A Find the total cost of a purchase with sales tax. 5.10B Find gross income and net income. 5.10D Keep Financial records 5.10F Balance a budget 5.10E Explain how to balance a budget when expense is more than income.
2	**Continuation of** **Topic 13: Personal Financial Literacy** **Lesson 1 – Lesson 8**	• List ways country governments can raise money. • Explain why they think gross income and net income are different. • Explore different ways to pay for an item and discuss which they like better. • Create a balanced budget for a given amount of income	5.10 A define income tax, payroll tax, sales tax, and property tax. 5.10A Find the total cost of a purchase with sales tax. 5.10B Find gross income and net income. 5.10D Keep Financial records 5.10F Balance a budget 5.10E Explain how to balance a budget when expense is more than income.
3	***Review for STAAR***		
4	***MATH STAAR***		

DARUL ARQAM ACADEMY NORTH

Scope and Sequence

Grade 5 Math

5	**STEP UP TO 6th GRADE** **Lessons 1-4**		6.2C Locate, compare, and order integers and rational numbers using a number line. 6.3A recognize that dividing by a rational number and multiplying by its reciprocal result in equivalent values.
6	**STEP UP TO 6th GRADE** **Lessons 5-7**		6.3 A recognize that dividing by a rational number and multiplying by its reciprocal result in equivalent values. 6.4C Give examples of ratios as multiplicative comparisons of 2 quantities describing the same attribute. 6.4E Represent ratios and percent, with concrete model, fractions, and decimals. 6.4G Generate equivalent forms of fractions, decimals, and percent using real world problems, including problems involving money.
7	**STEP UP TO 6th GRADE** **Lessons 8-10**		6.5A Represent mathematical and real-world problems, Involving ratios and rate using scale factors, tables, graphs, and proportions. 6.8B Model area formulas for parallelograms, trapezoids, and triangles by decomposing and rearranging parts of these shape.

DARUL ARQAM ACADEMY NORTH

Scope and Sequence

Grade 5 Math

			6.11 Use coordinate geometry to identify locations on a plane. Graph points in all four quadrants using ordered pairs Of rational numbers
8	***STAAR review for Science***		
9	***Science STAAR*** Make-up work /graduation		