Our Lady of Grace Curriculum Map

Grade: 5 Sanchez	**Subject: Math**	**Time Frame: August, modify based on data** **Set up expectations and procedures in August.**

Essential Question(s):

- How does the position of a digit in a number relate to its value?

IN Standards	**Content**	**Skills**	**Key Vocabulary**	**Assessments**	**Resources**	**Brainstorms Extensions STEM Integration**
Critical PS.1 PS.2 PS.3 PS.4 PS.5 PS.6 PS.7 PS.8 **Important** NS.6 NS.1 **Additional** NS.3	• Place Value through millions • Compare and order whole numbers through millions • Model fractions and decimals • Place value through thousandths • Compare decimals • Problem solving	1. Read and write whole numbers through millions. 2. Use models to relate decimals to fractions. 3. Represent fractions to decimals. 4. Read and write decimals in standard form. 5. Order whole numbers and decimals.	1. Decimal point 2. Decimal 3. Equivalent decimals 4. Expanded form 5. Period 6. Place 7. Standard form 8. Place value	**Checks for Understanding** Morning Work Seatwork Homework ALEKS Hands on math labs and projects **Summative** Formal textbook assessment	180 Days of Fifth Grade Math Rocket Math ALEKS Math Notebooks Play Money Place Value Charts Text Book Leveled Trade Books	Map It! Project: Students create a map of the US, record the land area of each state and create a guide to the states. States are ordered according to their land area from least to greatest.

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Grade: 5 Sanchez	**Subject(s)**: Math				**Time Frame**: Aug.-Sept, modify based on data - Use to set up classroom routines and expectations	
Essential Question(s): ● What strategies can be used to multiply whole numbers?						
IN Standards	**Content**	**Skills**	**Key Vocabulary**	**Assessments**	**Resources**	**Brainstorms Extensions STEM Integration**
Critical C.1 AT.1 PS.1 PS.2 PS.3 PS.4 PS.5 PS.6 PS.7 PS.8 **Important**	● Prime Factorization ● Powers and Exponents ● Use basic facts and patterns ● Distributive Property ● Estimating products ● Multiply by one and two digit numbers	1.Find prime factorization of numbers 2. Explore patterns in prime numbers. 3.Use powers and exponents in expressions. 4. Make a table to solve problems. 5. Multiply mentally using the distributive	1. Prime factorization 2. Exponent 3. Base 4. Power 5. Squared 6. Cubed 7. Powers of 10 8. Distributive Property 9. Compatible Numbers	**Checks for Understanding** Morning Work Seatwork ALEKS Homework Hands on lab work and projects **Summative** Check my progress	ALEKS Math notebook 180 Days of Math Notecards Leveled Trade books Text book	About How Much? Project: Students estimate how much food they eat for one day. They keep a food diary. Students use nutritional guides to study their food intake and decide how they might modify their food

Additional NS.4		property and rounding.		Chapter Assessment		intake.

Our Lady of Grace Curriculum Map		
Grade: 5 Sanchez	**Subject(s)**: Math	**Time Frame**: Sept., modify based on data - August set expectations
Essential Question(s): ● What strategies can be used to divide whole numbers?		

IN Standards	**Content**	**Skills**	**Key Vocabulary**	**Assessments**	**Resources**	**Brainstorms Extensions STEM Integration**
Critical C.2 AT.1 PS.1 PS.2 PS.3 PS.4 PS.5 PS.6 PS.7 PS.8 **Important** **Additional**	● Multiplication and Division ● Divide multiples of 10, 100, and 1000 ● Estimate quotients ● Distributive Property ● Quotients with zero ● Remainders ● Final Doment	1. Understand how division and multiplication are related. 2. Divide with two digit divisors. 3. Use rounding and compatible numbers to estimate quotients. 4. Divide using the Distributive Property.	1. Fact family 2. Unknown 3. Variable 4. Dividend 5. Divisor 6. Quotient 7. Remainder 8. Partial Quotient	**Checks for Understanding** Morning Work Seatwork Homework ALEKS Math Notebook Projects **Summative** Check My Progress Textbook Assessment	!80 Days of Math Rocket Math ALEKS Leveled Trade Books Textbook Counters Base-ten blocks Sticky notes Fruit snacks Individual dry erase boards Bar diagrams Grid paper Paper plates	Incorporate division into food drive.

		5. Divide up to a four digit number by a one digit number. 6. Solve problems with a zero in the quotient. 7. Interpret a remainder in a division problem.				

Our Lady of Grace Curriculum Map

Grade: 5 Sanchez	**Subject(s)**: Math	**Time Frame:** Sept., modify based on data - August set expectations

Essential Question(s):
- What strategies can I use to divide by a two digit divisor?

IN Standards	Content	Skills	Key Vocabulary	Assessments	Resources	Brainstorms Extensions STEM Integration
Critical C.2 AT.1	● Divide quotients with a two digit divisor	1. Estimate quotients with a two digit	1. Dividend 2. Divisor 3. Quotient	**Checks for Understanding** Morning Work	Textbook ALEKS 180 Days of Math	Plan A Field Trip: Students pick a destination for a

PS.1 PS.2 PS.3 PS.4 PS.5 PS.6 PS.7 PS.8 **Important** **Additional**	● Divide a three digit number by a two digit divisor. ● Solve problems with the four step problem solving technique.	divisor. 2. Use models to divide by a two digit divisor. 3. Divide up to a five digit number by a two digit divisor. 4. Use four step problem solving technique.	4. Estimate 5. Round 6. Remainder 7. Dividend	Seatwork Homework ALEKS Math Notebook Projects **Summative** Check My Progress Text Book Assessment	Rocket Math Index Cards Base Ten Blocks Counters Centimeter Cubes	field trip and determine the cost of the trip per student.

Unit Plans

Our Lady of Grace Curriculum Map						
Grade: 5 Sanchez	**Subject(s)**: Math				**Time Frame**: Sept.-Oct., modify based on data	
Essential Question(s): ● How can I use place value and properties to add and subtract decimals?						
IN Standards	**Content**	**Skills**	**Key Vocabulary**	**Assessments**	**Resources**	**Brainstorms Extensions STEM Integration**
Critical C.8 AT.5 C.9 PS.1	1. Rounding 2. Estimating 3. Add decimals 4. Subtract	1. Estimate sums and differences by rounding. 2. Adding decimals	1. Commutative Property of Addition. 2. Associative Property of	**Checks for Understanding** Morning Work Seatwork Homework	ALEKS Text Book 180 Days of Math Rocket Math	Food Drive: Students plan and organize the St.Vincent de Paul Food Drive

PS.2 PS.3 PS.4 PS.5 PS.6 PS.7 PS.8 **Important** **Additional** NS.5	decimals 5. Add whole numbers and decimals mentally	3. Subtracting decimals. 4. Use the Associative, Commutative and Identity Properties to add whole numbers and decimals.	Addition. 3. Identity Property of Addition.	ALEKS Math Notebook Projects **Summative** Check My Progress Text Book Assessment	Blank Paper Markers Menus from a pizza restaurant Leveled trade books Base Ten Blocks 10 by 10 grids Play coins and bill denominations Index cards Dominos	

Unit Plans

Our Lady of Grace Curriculum Map		
Grade: 5 Sanchez	**Subject(s)**: Math	**Time Frame**: October (4 weeks), may change based on data
Essential Question(s): ● How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?		

IN Standards	**Content**	**Skills**	**Key Vocabulary**	**Assessments**	**Resources**	**Brainstorms Extensions STEM Integration**
✓+ (Critical) ● C.1 ● C.8 ● AT.5 ● C.9 ● PS.1 ● PS.2 ● PS.3	1. Multiply whole numbers 2. Multiply decimals 3. Multiply mentally. 4. Divide	1. Estimate products of whole numbers and decimals. 2. Multiply whole numbers by decimals. 3. Multiply	1. Associative Property of Multiplication. 2. Commutative Property of Multiplication. 3. Identity Property of	**Checks for Understanding** Morning Work Seatwork Homework ALEKS Math Notebook Projects	Textbook 180 Days of Math Rocket Math ALEKS 10 by 10 grid Index cards Play money Base Ten Blocks	Tree House Project Students will design a treehouse and determine the cost to build a treehouse.

● PS.4 ● PS.5 ● PS.6 ● PS.7 ● PS.8 ✓ **(Important)** ● none ✓ **- (Additional)** ● NS.5 ● NS.4	whole numbers 5. Divide decimals	decimals by a decimal. 4. Multiply decimals by the power of 10. 5. Estimate quotients of decimals and whole numbers. 6.Divide decimals by whole numbers. 7. Divide a decimal by a power of ten.	Multiplication.	Rocket Math **Summative** Check My Progress Text book Assessment		

Unit Plans

Our Lady of Grace Curriculum Map						
Grade: 5 Sanchez	**Subject(s)**: Math				**Time Frame**: Nov.. (2-3 weeks), may change based on data	
Essential Question(s): ● How are patterns used to solve problems?						
IN Standards	**Content**	**Skills**	**Key Vocabulary**	**Assessments**	**Resources**	**Brainstorms Extensions STEM Integration**

✓+ (Critical) ● C.9 ● PS.1 ● PS.2 ● PS.3 ● PS.4 ● PS.5 ● PS.6 ● PS.7 ● PS.8 **✓ (Important)** ● AT.8 ● AT.7 ● AT.6 ● AT.8 **✓- (Additional)**	● Numerical patterns ● Order if operation ● Using variables ● Plot points ● Graph points on a coordinate plane	1. Write and evaluate numerical expressions. 2. Use order of operations to solve expressions. 3. Identify and extend patterns and sequences.	1. Numerical expressions 2. Evaluate 3. Order of operations 4. Expression 5. Variables 6. Evaluate 7. Operation	**Checks for Understanding** Morning Work Seatwork Homework ALEKS Math Notebook Projects Rocket Math **Summative** Check My Progress Textbook Assessment	180 Days of Math Textbook ALEKS Rocket Math Counters Index cards Connecting cubes Counters Toothpicks Colored pencils World globe Grid paper	Recycling Rules Project Students make a poster showing what happens when they recycle plastic, metal, paper, and glass.

Our Lady of Grace Curriculum Map						
Grade: 5 Sanchez	**Subject(s)**: Math				**Time Frame**:Nov. (2-3 weeks)	
Essential Question(s): ● How are factors and multiples helpful in solving problems?						
IN Standards	**Content**	**Skills**	**Key Vocabulary**	**Assessments**	**Resources**	**Brainstorms Extensions STEM Integration**

✓+ (Critical) ● C.1. ● PS.2 ● PS.3 ● PS.4 ● PS.5 ● PS.6 ● PS.7 ● PS.8 **✓ (Important)** ● NS.1 **✓- (Additional)** **NS.3** **C.6**	● Fractions and division ● Greatest common factor ● Simplest form ● Guess, check and revise ● Least Common Multiple	1. Solve word problems by interpreting a fraction. 2. Determine the common factors and greatest common factor of a set of numbers. 3. Generate equivalent fractions and simplest form. 4. Determine the common multiples and least common multiple of numbers. 5. Write fractions as multiples.	1. Fraction 2. Numerator 3. Denominator 4. Common factors 5. Greatest Common factor 6.Simplest form 7.Equivalent fractions 8. Multiple 9. Common multiple 10. Least common multiple 11. Least common denominator	**Checks for Understanding** Morning Work Seatwork Homework ALEKS Math Notebook Projects Rocket Math **Summative** Check My Progress Textbook Assessment	180 Days of Math Rocket Math ALEKS Textbook Fraction circles Counters Number lines Fraction tiles Index cards Masking tape Tenth grids Hundreds grids Play money Place value charts	Fraction Party Project: Students plan a party with food that must be divided into fractions.

Unit Plans

Our Lady of Grace Curriculum Map		
Grade: 5 Sanchez	**Subject(s)**: Math	**Time Frame**: December (4 weeks) Modify based on data

Essential Question(s): ● How can equivalent fractions help to add and subtract fractions?						
IN Standards	**Content**	**Skills**	**Key Vocabulary**	**Assessments**	**Resources**	**Brainstorms Extensions STEM Integration**
✓+ (Critical) ● C.4 ● AT.2 ● PS.1 ● PS.2 ● PS.3 ● PS.4 ● PS.5 ● PS.6 ● PS.7 ● PS.8 **✓ (Important)** ● none **✓- (Additional)** ● none	● Add like fractions ● Subtract like fractions ● Add unlike fractions ● Subtract unlike fractions ● Add mixed numbers ● Subtract mixed numbers	1. Use number lines and benchmark fractions to round fractions. 2. Add like fractions. 3. Add unlike fractions 4. Subtract like fractions. 5. Subtract unlike fractions. 6. Add mixed numbers 7. Subtract mixed numbers.	1. Like fractions 2. Unlike fractions	**Checks for Understanding** Morning Work Seatwork Homework ALEKS Math Notebook Projects RocketMath **Summative** Check My Progress Textbook Assessment	Textbook 180 Days of Math Rocket Math ALEKS Number lines Fraction Tiles Dry erase boards Dry erase markers Counters Index Cards Fraction Circles Play money	Flight School Project: Students work in small groups to make, design and modify a paper airplane.

Unit Plans

Our Lady of Grace Curriculum Map g		
Grade: 5	**Subject(s)**: Math	**Time Frame**: January (4 weeks), may

Sanchez					change based on data	
Essential Question(s): ● What strategies can be used to multiply and divide fractions?						
IN Standards	**Content**	**Skills**	**Key Vocabulary**	**Assessments**	**Resources**	**Brainstorms Extensions STEM Integration**
✓+ (Critical) ● C.5 ● C.7 ● PS.1 ● PS.2 ● PS.3 ● PS.4 ● PS.5 ● PS.6 ● PS.7 **✓ (Important)** ● AT.3 ● AT.4 **✓- (Additional)** ● C.6 ● C.3	●	1. Explain a simple sentence 2. Write and use simple sentences accurately - including modifiers and prepositional phrases	1. Simple sentence	**Checks for Understanding** In class practice Practice pages Quiz Writing samples/journal entries **Summative** Essay - connected to writing focus	Textbook Workbook Websites Mentor Text/Picture books Anchor papers	Diagram models

Unit Plans

Our Lady of Grace Curriculum Map

Grade: 5 Sanchez	**Subject(s)**: Math	**Time Frame**: Feb. (3-4 weeks) , Adjust based on data

Essential Question(s):.

- What strategies can be used to multiply and divide fractions?

IN Standards	Content	Skills	Key Vocabulary	Assessments	Resources	Brainstorms Extensions STEM Integration
✓+ (Critical) ● C.5 ● C.7 ● PS.1 ● PS.2 ● PS.3 ● PS.4 ● PS.5 ● PS.6 ● PS.7 ● PS.8 **Important** AT.3 AT.4 **✓- (Additional)** C.6 C.3	● Products of fractions ● Products of whole numbers and fractions ● Multiply mixed numbers ● Divide unit fractions	1. Find parts of a number. 2. Estimate products of fractions 3. Multiply whole numbers and fractions. 4. Multiply fractions. 5. Multiply mixed numbers. 6. Divide whole numbers by ai unit fraction.	1. Scaling 2. Unit fraction	**Checks for Understanding** Morning Work Seatwork Homework ALEKS Math Notebook Projects Rocket Math **Summative** Check My Progress Textbook Assessment	Leveled Trade books ALEKS 180 Days of Math Rocket Math Textbook Bar diagrams Number lines Counters Fraction tiles Crayons Colored pencils Play money Tiles	I'm Game Project: Students create a board game based on the chapter content.

Unit Plans

Our Lady of Grace Curriculum Map

Grade: 5 Sanchez	**Subject(s)**: Math	**Time Frame**: March. (3 weeks)

Essential Question(s):

- How can I use measurement conversions to solve real-world problems?

IN Standards	Content	Skills	Key Vocabulary	Assessments	Resources	Brainstorms Extensions STEM Integration
✓+ (Critical) ● M.1 ● PS.1 ● PS.2 ● PS.3 ● PS.4 ● PS.5 ● PS.6 ● PS.7 ● PS.8 **✓ (Important)** ● M.2 **✓- (Additional)** ● tnone	● Measure with a ruler ● Customary Units of measurement ● Weight ● Customary Units of weight ● Capacity ● Customary Units of capacity ● Line Plot ● Metric Units	1. Measure length to the nearest half and quarter inch. 2. Convert customary units of measurement. 3. Use a balance to weigh objects. 4. Convert customary units of weight. 5. Measure capacity with customary units of measurement. 6. Measure objects to the nearest centimeter and millimeter. 7. Convert measurement of length with the metric system.	1. Length 2. Customary system (inch, foot, yard, mile, ounce, pound, ton, cups, pints, gallons) 3. Convert 4. Weight 5. Capacity 6. Fair share 7. Metric system (centimeter, millimeter, meter, kilometer, gram, kilogram, milligram, liter, milliliter)	**Checks for Understanding** Morning Work Seatwork Homework ALEKS Math Notebook Projects Rocket Math **Summative** Check My Progress Textbook Assessment	180 Days of Math Rocket Math ALEKS Textbook Inch rulers Paper clips Balances Ounce weights Pound weights Pint, cup, quart, and gallon containers Water Number lines Bar diagrams Centimeter rulers Meter sticks Gram weights Containers labeled liter or mililiter	Stepping It Up project: Students measure places in school by first estimating and then using actual measurement.

		8.Convert measurements of mass within the metric system. 9. Convert measure of capacity within the metric system.				

Our Lady of Grace Curriculum Map .						
Grade: 5 Sanchez	**Subject(s)**: Math				**Time Frame**: April (4 weeks)	
Essential Question(s): ● How can I measure and data and display it?						
IN Standards	**Content**	**Skills**	**Key Vocabulary**	**Assessments**	**Resources**	**Brainstorms Extensions STEM Integration**
✓+ (Critical) ● none **✓ (Important)** ● DS.1 ● DS.2 ● PS.1 ● PS.2 ● PS.3 ● PS.4 ● PS.5 ● PS.6 ● PS.7 ● PS.8 **✓- (Additional)** ● none	● Line graph ● Mean/fair share ● Median ● Mode ● Line plots ● Stem and leaf plots	1. Take a survey and collect and organize data. 2. Construct a line graph using data.. 3. Make a prediction using data. 4. Find the mean/fair share of a set of data. 5. Find the median and mode of a set of data. 6. Construct and interpret line plots.	1. Data 2. Double line graph 3. Frequency table 4. Line graph 5. Line plot 6. Mean 7. Median 8. Mode 9. Outlier 10. Range 11. Stem and leaf plot 12. Survey	**Checks for Understanding** Morning Work Seatwork Homework ALEKS Math Projects Rocket Math **Summative** Check My Progress Students will complete research,	Textbook 180 Days of Math Rocket Math ALEKS Graph paper Counters Paper plates	Final project

		7.Organize and display data on a stem and leaf plot.		collect data, and present information to the class with a graph		

Unit Plans

Our Lady of Grace Curriculum Map						
Grade: 5 Sanchez	**Subject(s)**: Math				**Time Frame**: May. (3-4 weeks)	
Essential Question(s): ● How does geometry help me solve problems in real life?						
IN Standards	**Content**	**Skills**	**Key Vocabulary**	**Assessments**	**Resources**	**Brainstorms Extensions STEM Integration**
✓+ **(Critical)** ● PS.1 ● PS.2 ● PS.3 ● PS.4 ● PS.5 ● PS.6 ● PS.7 ● PS.8 ✓ **(Important)** ● G.1	● Polygons ● Triangles ● Quadrilaterals ● Three-Dimensional Figures ● Volume	1.Classify two-dimensional figures 2. Measure the sides and angles of quadrilaterals. 3. Describe properties of three-dimensional figures. 4. Use the volume	1. Hexagon 2. Pentagon 3. Polygon 4. Octagon 5. Congruent angles 6. Congruent sides 7. Regular polygons 8. Attribute 9. Equilateral	**Checks for Understanding** Morning Work Seatwork Homework ALEKS Math Notebook Projects Rocket Math	180 Days of Math Textbook ALEKS Rocket Math Leveled trade books Centimeter cubes Index cards Centimeter rulers	Geo-ville Project: Students will create a small village with three-dimensional objects.

● G.2 ✓ **- (Additional)** ●		formulas.	10. Isosceles 11. Scalene 12. Acute 13. Obtuse 14. Right 15. Trapezoid 16. Parallelogram 17. Rectangle 18. Rhombus 19. Square 20. Three-dimensional figure 21. Net 22. Cube 23. Congruent figure 24.Rectangular prism 25.face 26.Three-dimensional figure 27. Rectangular prism 28. Triangular prism 29. Edge 30. Vertex 31. Prism 32. Base 33. Cube 34. Volume 35. Unit cube 36. Cubic unit	**Summative** Check My Progress Textbook Assessment		