Archdiocese of Newark Catholic Schools



Curriculum Mapping

Curriculum mapping is a process that helps schools and districts/dioceses determine the "agreed-upon" learning for all students. Curriculum mapping was undertaken in the Archdiocese of Newark in order to ensure that a consistent, clearly articulated curriculum infused with Gospel values is being provided to all students in our schools. The curriculum maps for the Catholic schools of the Archdiocese of Newark identify the content to be taught and skills to be mastered at each grade level.

The expertise and experience of the educators within our schools is the main source for determining the content and skills students will be expected to master. The Archdiocesan curriculum maps are developed through a collaborative process which involves individual teacher contributions, small group sessions and larger group meetings. Relevant educational standards, including those proposed by content area experts, the New Jersey Core Curriculum Content Standards, and the Common Core State Standards, are used as a resource in the curriculum mapping process. The resulting consensus maps reflect the collective thinking of classroom teachers based on their observation of student learning and their knowledge of educational practice and research. The Archdiocesan curriculum maps include teacher generated ideas for the infusion of Gospel values and faith connection activities.

While the curriculum maps clearly articulate the expected learning for all students, individual teachers have the flexibility to teach the content and skills in their own manner by:

- utilizing their own particular strengths and teaching style
- addressing the varying learning needs of their students
- determining the order in which the content and skills are presented within a marking period
- including additional content and skills once students have met the learning expectations identified in the curriculum map

Administrators at all levels will maintain the responsibility to ensure that teachers are following the curriculum maps and that appropriate teaching is being conducted. This will be done through a combination of classroom observations, faculty meetings, professional development opportunities and teacher evaluations, as well as by using various measurement tools, including but not limited to in-class and standardized testing. The Archdiocesan curriculum maps will help ensure the academic excellence that is integral to the mission of our Catholic schools and will provide educators and parents with a clear understanding of the learning expectations at each grade level.

First	Trimester:	September-	November

Standards	Content	Skills	Assessment	Gospel Values & Faith
				Connections
 5.NBT.1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left. 5.NBT.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use wholenumber exponents to denote powers of 10. 5.NBT.3 Read, write, and compare decimals to thousandths. a) Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., 347.392 = 3 × 100 + 4 × 10 + 7 × 1 + 3 × (1/10) + 9 × (1/100) + 2 × (1/1000). b) Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons. 5.NBT.4 Use place value understanding to round decimals to any place. 	Place Value from billions to thousandths place	Identify the value of digits to the billions through thousandths place using expanded, standard and word form. Compare, order and round whole numbers and decimals.	Student learning will be assessed on a continual basis using various types of formal and informal assessments. A list of possible assessment methods is provided below: Pre- and post-tests Quizzes Chapter and Unit Tests Interactive Whiteboard activities Online Math Programs Software programs and applications Homework Review Group activities Projects Math vocabulary quizzes Math journals Math notebooks Modeling	Gospel values should be evident in the classroom environment and referenced and reinforced throughout the curriculum. Gospel Values Community Compassion Faith in God Forgiveness Hope Justice Love Peace Respect For Life Service Simplicity Truth Included in this column are suggestions for making faith connections within the Math classroom. These suggestions were submitted by teachers.

First Trimester: September-November

First Trimester: September-Novemb		G1 *11		0 171 0 5 13
Standards	Content	Skills	Assessment	Gospel Values & Faith
				Connections
5.NBT.5 Fluently multiply multi-digit whole numbers using the standard algorithm. 5.NBT.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. 5.NBT.7 Add, subtract, multiply, and divide decimals to hundredths using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	Addition, Subtraction, Multiplication and Division of Whole Numbers and Decimals	Demonstrate the ability to add and subtract numbers with 3 or more digits. Demonstrate the ability to multiply numbers with 3 or more digits. Demonstrate the ability to divide with up to 2- digit divisors.	Check-out/Exit cards or tickets Use of manipulatives Learning activities/games Student-created problems Student-created technology resources Oral presentations	Each group is given a recipe that would be prepared at a soup kitchen. Using a weekly store ad, students need to estimate how much of each item is needed, and the cost of the meal.
5.OA.S2 Select and apply the properties of operations, such as commutative, associative, distributive, and identity, to simplify and evaluate numerical expressions.	Properties of Operations	Apply the commutative, associative, distributive, and identity properties to simplify and evaluate numerical expressions.		

First Trimester: September-November

Standards	Content	Skills	Assessment	Gospel Values & Faith Connections
5.NBT.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use wholenumber exponents to denote powers of 10.	Exponents	Use whole number exponents to denote powers of 10. Describe the relationship between powers of 10 and the place value system.		Connections
5.NBT.3a Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., $347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1000)$.				
5.OA.1 Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols. 5.OA.S1 Apply the order of operations for expressions involving addition, subtraction, multiplication, and division with grouping symbols (+, -, x, ÷).	Order of Operations	Display fluency in using standard algorithms and applying the Order of Operations to evaluate numerical expressions.		
5.OA.S6 Apply the divisibility rules for 2, 3, 4, 5, 6, 9, and 10 to the solution of problems.	Divisibility	Recall and apply rules of divisibility.		

Standards	Content	Skills	Assessment	Gospel Values & Faith Connections
5.NF.3 Interpret a fraction as division of the numerator by the denominator $(a/b = a \div b)$. Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers by using visual fraction models or equations to represent the problem	Fractions	Interpret a fraction as a division of the numerator by the denominator.		
5.NBT.S1 Select and use appropriate operations (addition, subtraction, multiplication, division) to solve problems, including those involving money.	Problem Solving	Determine operations and strategies needed to solve problems. Explain how the solution to a mathematical problem was achieved. Interpret and solve multistep problems using a combination of operations. Apply estimation skills to real life situations.		Solve real world problems related to social justice issues.

Standards	Content	Skills	Assessment	Gospel Values & Faith
				Connections
5.OA.S4 Determine if a number is prime or composite.	Factors and Multiples	Identify factors and multiples of a number.	Student learning will be assessed on a continual	Gospel values should be evident in the classroom
5.OA.S5 Identify factors and multiples of a number.		Determine whether a number is prime or composite.	basis using various types of formal and informal assessments.	environment and referenced and reinforced throughout the curriculum.
		Identify the greatest common factor (GCF) and least common multiple (LCM) of a given set of numbers.	A list of possible assessment methods is provided below: Pre- and post-tests	Gospel Values Community Compassion
		Represent prime factorization in exponential	Quizzes Chapter and Unit Tests	Faith in God Forgiveness
		form by creating factor trees.	Interactive Whiteboard activities	Hope Justice Love
			Online Math Programs	Peace
5.NF.S1 Demonstrate an understanding	Equivalent	Understand how to multiply	Software programs and applications	Respect For Life Service
of fractions as a ratio of whole numbers,	Fractions	and divide the numerator and	Homework Review	Simplicity
as parts of unit wholes, as parts of a collection, and as locations on the		denominator by the same non zero number in order to	Group activities	Truth
number line.		express equivalent fractions.	Projects	
		Simplify fractions to lowest	Math vocabulary quizzes	Included in this column are suggestions for making faith connections within the Math
		terms.	Math journals	classroom. These suggestions
		Rename improper fractions and mixed numbers.	Math notebooks	were submitted by teachers.

Standards	Content	Skills	Assessment	Gospel Values & Faith Connections
5.NF.S2 Identify and determine	Relationships	Demonstrate the relationship	Modeling	
common equivalent fractions, mixed numbers, decimals, and percents.	among Fractions, Decimals and Percents	between fractions, percents, and decimals.	Check-out/Exit cards or tickets	
	1 or comes	Convert among fractions,	Use of manipulatives	
		decimals, and percents.	Learning activities/games	
5.NF.1 Add and subtract fractions with	Addition and	Add and subtract fractions	Student-created problems	
unlike denominators (including mixed numbers) by replacing given fractions	Subtraction of Fractions	and mixed numbers with like and unlike denominators.	Student-created technology resources	
with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.			Oral presentations	
5.MD.3 Recognize volume as an attribute of solid figures and understand concepts of volume measurement.a) A cube with side length 1 unit, called a "unit cube," is said to have "one cubic unit" of volume, and can be used to measure volume.	Understanding Volume	Demonstrate volume using physical objects (counting unit cubes).		
b) A solid figure which can be packed without gaps or overlaps using <i>n</i> unit cubes is said to have a volume of <i>n</i> cubic units.				

Standards	Content	Skills	Assessment	Gospel Values & Faith Connections
5.MD.4 Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units. 5.MD.5 Relate volume to the operations of multiplication and addition, and solve real world and mathematical problems involving volume. a) Find the volume of a right rectangular prism with wholenumber side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes (e.g., to represent the associative	Finding Volume	Apply the formula to find the volume of rectangular prisms		
 property of multiplication). b) Apply the formulas V = l × w × h and V = B × h for rectangular prisms to find volumes of right rectangular prisms with whole number edge lengths in the context of solving real world and mathematical problems. 				

Standards	Content	Skills	Assessment	Gospel Values & Faith Connections
5.NBT.S1 Select and use appropriate operations (addition, subtraction, multiplication, division) to solve problems, including those involving	Problem Solving	Determine operations and strategies needed to solve problems.		
5.NF.2 Solve word problems involving addition and subtraction of fractions		Explain the mathematical reasoning and process used to solve problems.		
referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark		Interpret and solve multi- step problems using a combination of operations		
fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.		Apply estimation skills to real-life situations.		
		Solve problems involving whole numbers, fractions, and decimals.		

Third	Semester:	Marc	h-June
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Standards	Contont	Chille	Assassment	Cospol Volues
Standards 5.OA.S11 Solve problems involving proportional relationships, including unit pricing and map interpretation (e.g., one inch represents five miles, so two inches represent ten mile). 5.NF.5 Interpret multiplication as scaling (resizing) by: a) Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication. b) Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence a/b = (n×a)/(n×b) to the effect of multiplying a/b by 1.	Content Ratio and Proportions	Skills Represent ratios in three forms. Determine if two ratios form a proportion. Solve for missing terms in a proportion. Demonstrate the knowledge and use of scaling (resizing)	Assessment Use of manipulatives Learning activities/games Student-created problems Student-created technology resources Oral presentations	Gospel Values

Third		Semest	ter:	M	larc	h-J	une
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Third Semester: March-June				
Standards	Content	Skills	Assessment	Gospel Values
5.MD.S4 Describe and compare data sets using the concepts of median, mean,	Data, Tables and Graphs	Compute mean, median, mode, and range for a given		Keep track of the money collected for the Missions.
mode, maximum and minimum, and range.		set of data.		Use the figures to calculate the mean, median, and range
5.OA.S10 Use pictures, models, tables, charts, graphs, words, number sentences, and mathematical notations to interpret mathematical relationships.		Collect, organize, and represent data using tables and graphs.		of a given month as well as the percent of increase and decrease from week to week. Construct a line graph of donations over time.
5.MD.2 Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots.		Analyze data relevant to real life situations.		donations over time.
5.MD.S5 Propose and justify conclusions and predictions that are based on data				
		Distinguish between		
5.MD.1 Convert among different-sized	Measurement:	different units of		
standard measurement units within a given measurement system (e.g., convert	Customary and Metric Systems	measurement.		
5 cm to 0.05 m), and use these	Wittie Systems	Use estimation and direct		
conversions in solving multi-step, real world problems.		measurement skills.		
		Convert units of		
5.MD.S1 Select and apply appropriate standard units and tools to measure		measurement within a		
length, area, volume, weight, time,		measurement system.		
temperature, and the size of angles.		Demonstrate competency in		
		use of measurement tools.		
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Third Semester: March-June

Third Semester: March-June				
Standards	Content	Skills	Assessment	Gospel Values
5.G.3 Understand that attributes	Geometry:	Identify and classify		
belonging to a category of two-	Polygons, Angles	polygons according to sides		
dimensional figures also belong to all	& Circles	and angles.		
subcategories of that category.		C		
		Differentiate between area		
5.G.4 Classify two-dimensional figures		and perimeter.		
in a hierarchy based on properties.		and perimeter.		
		Apply formulas to find area		
5.G.S1. Identify and classify the different		and perimeter.		
kinds of triangles.		and permieter.		
5 MD CO Davidon and analy strates				
5.MD.S8 Develop and apply strategies for estimating the perimeter of shapes		Measure, draw and identify		
and the circumference of circles.		angles.		
and the circumstence of circles.				
		Identify parts of a circle.		
		Estimate the circumference		
5.G.1 Use a pair of perpendicular number		of a circle.		
lines, called axes, to define a coordinate				
system, with the intersection of the lines				
(the <u>origin</u>) arranged to coincide with the				
0 on each line and a given point in the				
plane located by using an ordered pair (x,	Coordinate Plane			
<u>y)</u> of numbers, called its coordinates.		Identify the <i>x-axis</i> , <i>y-</i> axis		
Understand that the first number		and origin on the coordinate		
indicates how far to travel from the		plane.		
origin in the direction on the horizontal				
<u>axis</u> , and the second number indicates		Plot and locate points within		
how far to travel in the direction on the		the first quadrant of the		
vertical axis, with the convention that the		coordinate plane.		
names of the two axes and the		_		
coordinates correspond (e.g., x-axis and				
<i>x</i> -coordinate, <i>y</i> -axis and <i>y</i> -coordinate).				

Third	Semester:	March _'	-June
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Standards S.G.2 Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation. 5.O.A.3 Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. 5.G.S.2 Predict, describe, and perform transformations on two-dimensional shapes, e.g., rotations(turns); reflections (flips), and translations (slides). 5.O.A.S7 Use symbol and letter variables along the symbol and letter variables (e.g., .U. ,x) to represent unknowns or quantities that vary in expressions and in equations or inequalities (mathematical sentences that use =, <, >). 5.O.A.S8 Determine the values of variables in simple equations. 5.O.A.S9 Replace variables with given values and evaluate/simplify (e.g., .2(b) . 3 when b = 4).	1 mrd Semester: March-June		C. 411	T .	
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Standards	Content	Skills	Assessment	Gospel Values
5.MD.S6 Predict the probability of outcomes of simple experiments (e.g., tossing a coin, rolling a die) and test the predictions. Use appropriate ratios between 0 and 1 to represent the probability of the outcome and associate the probability with the likelihood of the event: certain, likely, unlikely, or impossible.	Probability	Predict, test and record the probability of an outcome of an event.		•
5.NBT.S1 Select and use appropriate operations to solve problems, including those involving money.	Problem Solving	Determine the operations and strategies needed to solve problems.		
5.NF.2 Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations		Explain how and why the solution was achieved. Interpret and solve multi-		

Interpret and solve multi-

combination of operations.

Apply estimation skills to

Solve problems involving whole numbers, fractions,

step problems using a

real-life situations.

and decimals.

5.NF.6 Solve real world problems
involving multiplication of fractions and
mixed numbers,(e.g., by using visual
fraction models or equations to represent
the problem).

to represent the problem. Use benchmark

fractions and number sense of fractions

to estimate mentally and assess the

reasonableness of answers.

Third Semester: March-June

5.MD.S3 Solve problems involving proportional relationships and units of measurement (e.g., same system unit