



## 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.

Each child’s readiness level and ability of understanding along with 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 attain. 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 integration 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 in accord with the child’s level of understanding
- Including additional content and skills once students have met the learning expectations identified in the curriculum map

In the preschool classroom, content should not be presented in isolation; rather it should be woven throughout all components of the program. By providing developmentally appropriate instruction, children will progress at their individual levels of readiness with deeper understanding. Administrators at all levels will maintain the responsibility of ensuring 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 age appropriate assessment strategies. 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 learning expectations at each grade level.

**Roman Catholic Archdiocese of Newark**  
**Curriculum Map for Pre-Kindergarten Mathematics**

**First Semester: September-January**

Standards	Content	Skills	Assessment	Gospel Values & Faith Connections
<p><b>N.J.P.4.1</b> Begin to demonstrate an understanding of number and counting.</p>	<p><b>Number Sense</b></p>	<p><b>Number Sense</b>  Sort sets of blocks, cubes, toys etc.</p> <p>Count a row of up to ten concrete objects using verbal and physical skills.</p> <p>Recognize and identify a count of no objects for “zero”.</p> <p>Recognize and identify numbers as symbols for specific quantities by comparing, examining and matching like amounts in order to recognize consistency of quantities.</p> <p>Demonstrate one - to - one correspondence in art work, games, and daily activities.</p> <p>Compare groups of objects based on a single attribute.</p> <p>Create simple sets using beads, blocks, cubes etc.</p>	<p>Student learning should be assessed on a continual basis using various types of formal and informal assessments.</p> <p>A sample list of assessment methods is provided below:</p> <p>Verbal feedback from student</p> <p>Portfolio of student work</p> <p>Observation and documentation of the student engaged in activities</p> <p>Digital photography to record student’s activities.</p>	<p>Gospel values should be evident in the classroom environment and referenced and reinforced throughout the curriculum.</p> <p><b>Gospel Values</b>  Community  Compassion  Faith in God  Family  Forgiveness  Hope  Justice  Love  Peace  Respect For Life  Service  Simplicity  Truth</p> <p>Teachers will identify opportunities to integrate gospel values and make faith connections within the Mathematics curriculum.</p>

**Roman Catholic Archdiocese of Newark  
Curriculum Map for Pre-Kindergarten Mathematics**

**First Semester: September-January**

Standards	Content	Skills	Assessment	Gospel Values & Faith Connections
<p><b>NJ.P.4.2</b> Demonstrate an initial understanding of numerical operations.</p> <p><b>NJ.P.4.3</b> Begin to conceptualize measurable attributes of objects and investigate how to measure them.</p>	<p><b>Numerical Operations</b></p> <p><b>Measurement</b></p>	<p>Recognize and identify addition and subtraction by manipulating up to five objects.</p> <p>Represent simple word problems using manipulatives to “join together” and “take away”.</p> <p>Sort, order, pattern, sequence and classify objects by measurable and non-measurable attributes.</p> <p>Use appropriate vocabulary to demonstrate and identify measurable attributes.</p> <p>Order and compare two objects according to measurable attributes (shortest to longest, lightest to heaviest, smallest to biggest etc.).</p>		

**Roman Catholic Archdiocese of Newark**  
**Curriculum Map for Pre-Kindergarten Mathematics**

**First Semester: September-January**

<b>Standards</b>	<b>Content</b>	<b>Skills</b>	<b>Assessment</b>	<b>Gospel Values &amp; Faith Connections</b>
<p><b>NJ.P.4.4</b> Develop spatial and geometric sense.</p>	<p><b>Geometry and Spatial Sense</b></p>	<p><b>Geometry and Spatial Sense</b>            Recognize, identify, and name two- dimensional shapes (circle, square, triangle etc.).</p> <p>Use positional words correctly and consistently.</p> <p>Identify the position of specific objects using positional words.</p> <p>Use positional words in every day conversation (over, under, between, behind etc.).</p>		

**Roman Catholic Archdiocese of Newark**  
**Curriculum Map for Pre-Kindergarten Mathematics**

**Second Semester: January - June**

Standards	Content	Skills	Assessment	Gospel Values & Faith Connections
<p><b>NJ.P.4.1</b> Demonstrate an understanding of number and counting.</p>	<p><b>Number Sense</b></p>	<p><b>Number Sense</b>            Count to twenty by ones with minimal prompting.             Accurately count as many as five objects in a scattered configuration.             Associate quantity to a matching number symbol.             Connect numbers to correct quantity amounts.             Identify and represent a count of no objects for “zero”.             Match written number symbols to appropriate number quantities.             Demonstrate one - to - one correspondence to solve problems.             Create more complex sets using various amounts of manipulatives/objects.             Compare groups of objects using more than one attribute.</p>	<p>Student learning should be assessed on a continual basis using various types of formal and informal assessments.             A sample list of assessment methods is provided below:             Verbal feedback from student             Portfolio of student work             Observation and documentation of the student engaged in activities             Digital photography to record student’s activities.</p>	<p>Gospel values should be evident in the classroom environment and referenced and reinforced throughout the curriculum.   <b>Gospel Values</b>            Community            Compassion            Faith in God            Family            Forgiveness            Hope            Justice            Love            Peace            Respect For Life            Service            Simplicity            Truth             Teachers will identify opportunities to integrate gospel values and make faith connections within the Mathematics curriculum.</p>

**Roman Catholic Archdiocese of Newark**  
**Curriculum Map for Pre-Kindergarten Mathematics**

**Second Semester: January - June**

Standards	Content	Skills	Assessment	Gospel Values & Faith Connections
<p><b>NJ.P.4.2</b> Demonstrate an understanding of numerical operations.</p>	<p><b>Numerical Operations</b></p>	<p><b>Numerical Operations</b>            Compare groups of objects based on greater than and less than.</p> <p>Use verbal skills to explain addition and subtraction, while manipulating objects.</p> <p>Interpret and solve simple word problems.</p> <p>Use manipulatives, writing tools, and hand held devices in learning centers to demonstrate numerical skills.</p>		
<p><b>NJ.P.4.3</b> Begin to conceptualize measurable attributes of objects and learn how to measure them.</p>	<p><b>Measurement</b></p>	<p><b>Measurement</b>            Use sorting, ordering, patterning, sequencing and tallying to measure attributes of objects.</p> <p>Use appropriate vocabulary to identify and demonstrate measurable attributes.</p>		

**Roman Catholic Archdiocese of Newark**  
**Curriculum Map for Pre-Kindergarten Mathematics**

**Second Semester: January - June**

Standards	Content	Skills	Assessment	Gospel Values & Faith Connections
<p><b>NJ.P.4.4</b> Develop spatial and geometric sense.</p>	<p><b>Geometry and Spatial Sense</b></p>	<p>Compare and order two objects according to measureable attributes.</p> <p>Use graphing to demonstrate measurement.</p> <p><b>Geometry and Spatial Sense</b>            Describe and demonstrate how two and three dimensional shapes are formed.</p> <p>Compare and describe the attributes of various shapes.</p> <p>Recognize, name and describe additional shapes (rectangle, oval, diamond, heart, star etc.)</p> <p>Use positional words to describe the location of one object in relation to another.</p>		

**Roman Catholic Archdiocese of Newark**  
**Curriculum Map for Pre-Kindergarten Mathematics**

**Second Semester: January - June**

<b>Standards</b>	<b>Content</b>	<b>Skills</b>	<b>Assessment</b>	<b>Gospel Values &amp; Faith Connections</b>
		Place objects in a specific location by following verbal directions that include positional directions.		