

Jackson Area Catholic Schools

Mathematics Curriculum

Sequence of Study

Focal Point

Kindergarten

- Representing, comparing, and ordering whole numbers and joining and separating sets
- Describing shapes and space
- Ordering objects by measurable attributes

First Grade

- Developing understandings of addition and subtraction and strategies for basic addition facts and related subtraction facts
- Developing an understanding of whole number relationships, including grouping tens and ones
- Developing an understanding of linear measurement and facility in measuring lengths
- Composing and decomposing geometric shapes

Second Grade

- Developing an understanding of the base-ten numeration system and place-value concepts
- Developing quick recall of addition facts and related subtraction facts and fluency with multi-digit addition and subtraction
- Describing and analyzing shapes
- Using standard units of measure

Third Grade

- Developing understandings of multiplication and division and strategies for basic multiplication facts and related division facts
- Developing an understanding of area and perimeter and determining the areas and perimeters of two-dimensional shapes
- Describing properties of two-dimensional shapes
- Developing an understanding of fractions, especially unit fractions (fractions with numerator 1)

Mathematics Sequence of Study (cont.)

Fourth Grade

- Developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends
- Developing an understanding of fraction equivalence addition and subtraction of fractions with like denominators, multiplication of fractions by whole numbers
- Understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides particular angle measures, and symmetry

Fifth Grade

- Extending division to 2-digit divisors, integrating decimal fractions into the place value system and developing understanding of operations with decimals to hundredths, and developing fluency with whole number and decimal operation
- Developing fluency with addition and subtraction of fractions, developing understanding of the multiplication of fractions and of division of fractions in limited cases (unit fractions divided by whole numbers and whole numbers divided by unit fractions)
- Analyzing properties of two-dimensional shapes, including angles
- Developing understanding of volume

Sixth Grade

- Connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems
- Completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers
- Writing, interpreting, and using expressions and equations
- Describing three-dimensional shapes and analyzing their properties, including volume and surface area
- Developing understanding of statistical thinking

Mathematics Sequence of Study (cont.)

Seventh Grade

- Developing an understanding of and applying proportionality, including similarity
- Analyzing and representing linear functions and solving linear equations and systems of linear equations

Eighth Grade

- Analyzing and representing non-linear functions
- Developing an understanding of and using formulas to determine surface areas and volumes of three-dimensional shapes
- Analyzing two- and three-dimensional space and figures by using distance and angle
- Analyzing and summarizing data sets