

# FOURTH GRADE Mathematics Course of Study

The fourth grade mathematics course of study consists of five domains of focused study. The five domains are Operations and Algebraic Thinking, Number and Operations in Base Ten, Number and Operations – Fractions, Measurement and Data, and Geometry. Please note the abbreviations for each domain. Under each domain are the sub-categories that serve to group related content standards. All fourth grade mathematical content standards are located on the pages that follow.

The Diocesan Standards for Practice are listed below in the column to the right. These Diocesan standards should be incorporated into classroom instruction of the content standards.

## Content Standard Domains and Sub-categories

### Operations and Algebraic Thinking (OA)

- Use the four operations with whole numbers to solve problems.
- Gain familiarity with factors and multiples.
- Generate and analyze patterns.

### Number and Operations in Base Ten (NBT)

- Generalize place value understanding for multi-digit whole numbers.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

### Number and Operations – Fractions (NF)

- Extend understanding of fractions equivalence and ordering.
- Build fractions from unit fractions by applying and extending previous understanding of operations on whole numbers.
- Understand decimal notation for fractions, and compare decimal fractions.

### Measurement and Data (MD)

- Solve problems involving measurement and conversion of measurement from a larger unit to a smaller one.
- Represent and interpret data.
- Geometric measurement: understand concepts of angle and measure angles.

### Geometry (G)

- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

## Diocesan Standards for Practice

### For student:

Students will make connections to Gospel values across content areas.

Student will develop and demonstrate critical thinking, perseverance, and strong work habits.

Students will be reflective, considerate problem solvers.

Students will develop and demonstrate the ability to be moral evaluators and socially responsible global citizens.

### For the classroom:

Gospel values will be modeled through effective instruction, cultural sensitivity and an environment of continuous improvement.

Students will be assessed frequently, fairly and with consideration for the whole child.



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