

SIXTH GRADE

Mathematics Course of Study

The sixth grade mathematics course of study consists of five domains of focused study. The five domains are Ratios and Proportional Relationships, The Number System, Expressions and Equations, Geometry, and Statistics and Probability. Please note the abbreviations for each domain. Under each domain are the sub-categories that serve to group related content standards. All sixth 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

Ratios and Proportional Relationships (RP)

- Understand ratio concepts and use ratio reasoning to solve problems.

The Number System (NS)

- Apply and extend previous understanding of multiplication and division to divide fractions by fractions.
- Compute fluently with multi-digit numbers and find common factors and multiples.
- Apply and extend previous understanding of numbers to the system of rational numbers.

Expressions and Equations (EE)

- Apply and extend previous understanding of arithmetic to algebraic expressions.
- Reason about and solve one-variable equations and inequalities.
- Represent and analyze quantitative relationships between dependent and independent variables.

Geometry (G)

- Solve real-world problems and mathematical problems involving area, surface area, and volume.

Statistics and Probability (SP)

- Develop understanding of statistical variability.
- Summarize and describe distributions.

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.



Diocese of Birmingham in Alabama
Catholic Schools

2121 Third Avenue North, Birmingham, Alabama 35203
205.838.8303 / 205.838.8330 fax