

SEVENTH GRADE

Mathematics Course of Study

The seventh 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 seventh 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)

- Analyze proportional relationships and use them to solve real-world and mathematical problems.

The Number System (NS)

- Apply and extend previous understanding of operations with fractions to add, subtract, multiply, and divide rational numbers.

Expressions and Equations (EE)

- Use properties of operations to generate equivalent expressions.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

Geometry (G)

- Draw, construct, and describe geometrical figures and describe the relationships between them.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.

Statistics and Probability (SP)

- Use random sampling to draw inferences about a population.
- Draw informal comparative inferences about two-populations.
- Investigate chance processes and develop, use, and evaluate probability models.

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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