

*Council Rock School District
Mathematics Program K – 12*

The Council Rock K – 12 Mathematics Program is a unified program. The National Council of Teachers of Mathematics (NCTM) and the Pennsylvania Core Standards provide and support the direction and goals that form the underlying framework of our curriculum, program development, instructional practices, and assessment practices. This direction and these goals are also aligned with the Pennsylvania State System of Assessment (PSSA) standards.

With the standards in mind, we have developed a Council Rock School District Mathematics Program mission statement which guides our program and its continuous development.....

“The Council Rock graduate values mathematics and uses mathematical reasoning and communication with confidence to solve theoretical and practical problems across all curricular areas.”

Grade 3 Mathematics:

Enclosed are excerpts from the Course Framework for Mathematics Level 3, which provide a glimpse of what your child will be learning this year and the instructional setting we hope to provide for your child to achieve optimal learning. The series we use is **Pearson enVision Math.**

Pearson has a website, www.pearsonsuccessnet.com, which can be accessed for additional information about these materials. Each student will receive a username and password and will have full access to their grade level math book and all program materials online. Teachers are able to assign homework, online quizzes, and review sheets through this website. In order to use the online resources, you will need to have Adobe Shockwave installed. This is a free, downloadable program. For technological assistance, you can reach the Pearson Tech Help Line at 800-234-5832 or contact them through the website listed above.

Council Rock students continue to excel in mathematics on both nationally normed and state normed tests. This achievement is attributed to an excellent professional staff, a strong curriculum, conscientious students, and supportive parents. We remain confident that this status will continue.

Program Overview

At grade 3, students are provided with extensive opportunities to develop number and operation sense with both whole numbers and fractions, along with the composition and decomposition of shapes, along with skills in classifying, ordering, generalizing, organizing, and connecting mathematical concepts to real-life situations. Strategies to help them better learn and retain knowledge of their basic facts are taught, with children expected to achieve fluency with basic multiplication and division facts.

Many concepts and skills are introduced and developed with the use of manipulatives to provide the students with a foundation of physical and concrete experiences on which to build their mathematical understanding. These concrete experiences give deeper meaning to later pencil and paper activities.

Children will continue to develop math reasoning and problem-solving skills, learning a variety of routine and non-routine strategies. These strategies are an integral part of our mathematics curriculum.

Calculator activities are integrated, and their usefulness is connected with a variety of topics including problem-solving, pattern recognition, data analysis, graphing, and estimation. Computer programs are used to reinforce numerous mathematical concepts.

Mathematical communication in both verbal and written forms is an integral part of the program so that students can represent their own mathematical thinking in a variety of mathematical contexts.

UNITS OF STUDY

PLEASE NOTE: The following is a list of topic titles, which provide a quick synopsis of concepts to be explored this year. As you begin to see your child's work as it arrives home and as it is shared when you visit the classroom, you will have a better understanding of the depth and quality of the concepts your child will be learning.

1. Numeration
2. Adding Whole Numbers
3. Subtraction Number Sense
4. Subtracting Whole Numbers to Solve Problems
5. Multiplication Meanings and Facts
6. Multiplication Fact Strategies: Use Known Facts
7. Division Meanings
8. Division Facts
9. Patterns and Relationships
10. Solids and Shapes
11. Understanding Fractions
12. Decimals and Money
13. Customary Measurement
14. Metric Measurement
15. Perimeter, Area, and Volume
16. Time and Temperature
17. Multiplying Greater Numbers
18. Dividing with 1-digit Numbers
19. Data, Graphs, and Probability

Additional Resources and Website

We frequently get requests for both remediation and enrichment activities. Although the enVision program does provide these, you can find additional resources, games, and websites at www.crsd.org/mathmoments or on your math specialist's website.