

*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 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 5 Mathematics:**

Enclosed are excerpts from the Course Framework for Mathematics Level 5, 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](http://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**

Continuing the elementary program, a 5<sup>th</sup> grade student will continue to establish a firm foundation in number and operation sense and computation and estimation skills with whole numbers, fractions, and decimals. The student will also be continuing the elementary program where math reasoning and problem-solving skills, geometry concepts, the beginning concepts of algebra, along with measurement and data, have been interwoven throughout the curriculum at all levels.

Classroom tasks and assignments are used to connect mathematical topics, to develop the creative aspects of mathematics, and to solidify the awareness of the student's own mathematical power. Students will be given many opportunities to verbalize concepts and processes, as well as model, draw, and write about these to communicate their mathematical understanding. Many times the student will have the chance to develop his or her role as a member of a cooperative learning group.

Student proficiency with the use of the calculator in problem-solving and concept exploration is a natural and integrated part of the curriculum. In addition, a variety of activities involving manipulatives, mathematical models, audio-visual aids, and computer software are used to supplement paper and pencil activities.

The emphasis of all learning in the mathematics classroom is that students value mathematics as a tool that can readily be used in their everyday lives and that they experience success with the concepts they strive to learn and understand in the classroom.

## **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 and Subtracting Whole Numbers and Decimals
3. Multiplying Whole Numbers
4. Dividing by 1-Digit Divisors
5. Dividing by 2-Digit Divisors
6. Variables and Expressions
7. Multiplying and Dividing Decimals
8. Shapes
9. Fractions and Decimals
10. Adding and Subtracting Fractions and Mixed numbers
11. Multiplying Fractions and Mixed Numbers
12. Perimeter and Area
13. Solids
14. Measurement Units, Time, and Temperature
15. Solving and Writing Equations and Inequalities
16. Equations and Graphs
17. Graphs and Data

### **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](http://www.crsd.org/mathmoments) or on your math specialist's website.