

Dear Parents or Guardian,

I would like to welcome you and your student to 8<sup>th</sup> grade Math. I believe that your student will succeed in this class and that communication between you and I is one of the many ways to ensure this success. Please read the following information and sign at the bottom. Please fill in the comment section if there is anything I need to know to help make this year easier for your student.

**Curriculum:** New Caney ISD adopted textbooks focusing on problem solving and real-life situations. Each student will be given a textbook to keep at home and a password / username to access the online textbook. I will have a class set for the students to use at school. **In compliance with TEA, middle school students will have to pass the 8<sup>th</sup> grade Math and Reading portions of TAKS in order to be promoted to high school.**

**Agenda:** The students are required to record daily activities and homework in their student handbook. The grading policies are in the agenda.

**Homework:** Math homework will be given four days a week. I sometimes assign homework on Fridays when it is absolutely necessary. All work must be shown and is due at the beginning of class.

**Late Homework:** In compliance with NCISD Grading Procedures, no late work will be accepted and a zero will be recorded for the grade.

**Make-Up Work:** If your student has been absent from school, it is his/ her responsibility to get the assignments he or she missed. Your student has one day of make-up time for each day absent.

**Tutoring:** Tuesday 6:45-7:15 a.m. If there is a conflict with this time, please let me know so that we can make other arrangements. Tutoring is also available online at <http://my.hrw.com> under the video tab. **User Name: eagles28 Password: eagles**

**Materials:** Refer to the 8<sup>th</sup> grade supply list. **The TI-83 or any other calculator is not used in this class.** Also, please be aware that all work is to be completed in **pencil** or points will be deducted.

I look forward to working with you and your student. My conference period is 1:34-2:30 p.m. Please contact me about any concerns you have at Keefer Crossing 281-577-8840 or email me at [mreding@newcaneyisd.org](mailto:mreding@newcaneyisd.org).

Thank You,

Marie Reding  
8<sup>th</sup> Grade Mathematics

Student Signature: \_\_\_\_\_ E-mail: \_\_\_\_\_

Parent / Guardian Signature: \_\_\_\_\_ Phone#: \_\_\_\_\_

Comments:

# 8<sup>th</sup> Grade Math

## Chapter 1: Principles of Algebra

- Variables and expressions
- Algebraic expressions
- Integers
- Solve 1 step equations

## Chapter 2: Rational Numbers

- Rational numbers
- Comparing and ordering
- Fractions
- Solve 2 step equations

## Chapter 3: Graphs, Fractions & Sequences

- Ordered pairs
- Graphing
- Interpreting graphs/tables
- Functions
- Equations, tables & graphs
- Arithmetic sequences

## Chapter 4: Exponents and Roots

- Exponents
- Scientific notation
- Squares and square roots
- Evaluate powers and roots
- Real numbers
- Explore right triangles
- Pythagorean theorem

## Chapter 5: Ratios, Proportions & Similarity

- Ratios and proportions
- Ratio, rates & unit rates
- Dimensional analysis
- Solving proportions
- Similar figures
- Dilations
- Indirect measurement
- Scale drawing & scale models

Chapter 6: Percents

- Decimals, fractions and percents
- Estimate percents
- Finding percents/number
- Percent increase & decrease
- Applications of percents
- Simple interest

Chapter 7: Foundations of Geometry

- Points, lines, planes & angles
- Parallel & perpendicular lines
- Angles in triangles
- Classifying polygons
- Congruence
- Transformations

Chapter 8: Perimeter, Area & Volume

- Perimeter
- Basic area
- Circles
- Draw 3-dimensional figures
- Volume
- Surface area
- Scaling 3-dimensional figures

Chapter 9 : Data and Statistics

- Samples and surveys
- Organizing data
- Measures of central tendency
- Variability
- Displaying data
- Misleading graphs & statistics
- Scatter plots
- Representation of data

Chapter 10: Probability

- Experimental probability
- Theoretical probability
- Independent/dependent events

Chapter 11: Multi-Step equations and  
Inequalities  
Simplifying algebraic  
expressions  
Solve multi- step equations  
Equations with variables on  
both sides  
Solve inequalities  
Solve 2 – step equations

Chapter 12: Graphing Lines  
Graph linear equations  
Slope of a line  
Slopes and intercepts  
Point –slope form

Chapter 13: Sequences and Functions  
Terms of arithmetic sequence  
Other sequences

Chapter 14: Polynomials  
Simplifying polynomials