**Welcome to 8M Math!!**

All students will develop their math knowledge and work towards mastering the following areas:

* **Numbers and Number Sense** – including square roots

and perfect squares, percentages, rate, ratio, and proportional

 reasoning, multiplication/division of fractions, mixed numbers,

 and integers

* **Patterns and Relations** – including graphing/analyzing two-

variable linear equations, modeling and solving problems using

linear equations

* **Shape and Space** – including application of the Pythagorean Relationship, surface area, volume, drawing/interpreting 3-D

objects, and tessellations

* **Statistics and Probability** – including data presentation and

determining probability of independent events

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***Math consists of the following learning categories.***

***Report card weightings are shown in parenthesis.***

***Knowledge and Understanding (50%):*** Students will demonstrate an understanding of the grade-specific concepts through a variety of assessments including self-checks, practice lessons, questions, tests, discussions, projects, as well as a final exam.

***Mental Math and Estimation (30%):*** Students will use a variety of strategies to estimate, visualize, and manipulate numbers in their heads in order to apply their knowledge of basic math facts to compute problems involving larger numbers as well as the problems that arise in daily life situations. They will also make reasonably accurate inferences based on prior knowledge and experiences.

***Problem Solving (20%):*** Students will determine the problem to be solved, select an appropriate strategy, and then verify the solution. Students will also demonstrate their ability to formulate problems to solve.



Assessment of the above outcomes will be reported using the following scale:

**4** (80% - 100%) - Thorough understanding and in-depth application of concepts and skills

**3** (70% - 79%) - Very good understanding and application of concepts and skills

**2** (60% - 69%) - Basic understanding and some application of concepts and skills

**1** (50% - 59%) - Limited understanding and minimal application of concepts and skills

**ND** (less than 50%) - Does **N**ot yet **D**emonstrate the required understanding and application

 of concepts and skills