Math 8 – Fireside School Mr. Adams

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Evaluation for each Term:

* Quizzes 30%
* Unit Tests       40%
* Problem Solving, Projects and Assignments 30%

Tests: Exams will be at the end of each of the units.  Before each exam there will be a review, practice tests and an outline of what will be tested.

Quizzes: Quizzes will be held periodically throughout the entire year.

Problem Solving: Students will integrate math knowledge on in-class weekly problems. They will be evaluated on a rubric that focusses on determining information, communicating their understandings and demonstrating reasoning skills.

Projects and assignments: Throughout the year, projects and assignments will be completed by the students that reinforce and enhance the math curriculum.  This includes unit related projects, experiential math labs etc.

Each of the assessments will be categorized under the reporting system:

* Demonstrates and connects knowledge and skills between math concepts
* Applies knowledge and skills to solve problems
* Communicates/reasons the understanding of math(speaking/drawing/writing)
* Uses mental math and estimation in daily work

Curriculum Outcomes:

<http://www.learnalberta.ca/ProgramOfStudy.aspx?ProgramId=26061#466675>

Number: includes squares, square roots, percents, rates, ratio, proportion, operations with fractions, operations with integers

Patterns and Relations: includes linear relations and algebra

Shape and Space: includes Pythagoras Theorem, surface area and volume of 3D shapes, transformations

Statistics and Probability: includes graphing (emphasis on analysis of how information is presented) and probability experiments

**Units of Study**

Students will complete the following units in this sequence. Certain units merit more time than others. Problem Solving assignments and other projects will be completed throughout the year and combine elements from various units.

* Note: the information in parenthesis relates to the unit titles of our core textbook: Math Makes Sense. We will use this textbook in combination with many other instructional tools including Powerpoint presentations and videos.

1. Data Analysis/Graphing (first portion of Unit 7)
2. Square Root and the Pythagorean Relationship (Unit 1)
3. Integers (Unit 2)
4. Operations with Fraction (Unit 3)
5. Data and Probability (second section of Unit 7)
6. Ratio, Rate and Percent (Unit 5)
7. Linear Equations and Graphing (Unit 6)
8. Measuring Prisms and Cylinders: Surface Area and Volume (Unit 4)
9. Geometry/Tessellations (Unit 8)