

**Syllabus**  
**Math 7 – Pre-Algebra**  
**2011-2012**

Pre Algebra is an important course which reviews basic and complex facts and at the same time introduces the student to basic concepts in Algebra. Students learn how to approach problems from an Algebra point of view, setting up equations for word problems and working through all the proper steps to the final answer. Each day in class Monday through Thursday we review math facts, number sense, and problem solving. The problem solving exercises are designed to encourage more critical thinking. Each Friday the students are given an assessment to follow their progress.

**Text**

Saxon Math, Course 3, 2007

**Grading**

Grading will follow school guidelines.

**Grading Criteria:**

**Homework and Classwork: 50%**

**Assessments: 50%**

**Course Schedule**

**Aug-Sept - Lessons 1-30**

**Review all operations of whole numbers, fractions, and decimals**

**Prime numbers**

**Oct - Lessons 31-46**

**Ratios**

**Probability**

**Volume**

**Negative numbers**

**slope**

**Circumference and area of circles**

**Nov - Lessons 47 - 57**

**functions**

**graphing**

**percents**

**multistep equations**

**transformations**

**Dec - Lessons 58 - 65**

**unit multipliers**  
**scientific notation**  
**parallelograms**  
**negative exponents**  
**similar triangles**

**Jan - Lessons 66 – 76**

**Sorry, I keep hitting the wrong button...**

**Jan - Lessons 66 - 76**

**right triangles**  
**direct variation**  
**square root**  
**trapezoids,**  
**volume**

**Feb Lessons 77-87**

**Inequalities**  
**adding mixed measures**  
**scatterplots**  
**central angles**  
**surface area**

**March - Lessons 88-98**

**Volume of Pyramids and cones**  
**solve equations by graphing**  
**sets**  
**scales factors**  
**slant heights**

**April - Lessons 99 - 109**

**Radicals**  
**inverse variation**  
**compound interest**  
**box and whisker plots**  
**compound average**

**May - Lessons 110 - 120**

**Similar solids**  
**spheres**  
**nonlinear functions**  
**division by zero**  
**significant digits**  
**sine, cosine, tangent**

**Cross Curriculum** - Students work will all measurement conversions with unit multipliers which is a necessary skill in Chemistry and other sciences. In addition, student will have a though understanding of percentages which will be used in the history class study of the stock market.

**Benchmarks**- Every Friday students take an assessment to determine their progress on concepts. In addition each week the students are given math fact tests and number sense tests to help them to be able to do mental calculations quickly.