

Pre-Algebra Curriculum Guide

I. Course Description

This is a transitional course designed to assist the student in moving from the concrete concepts of arithmetic to the abstract concepts of algebra. Emphasis is placed on numeration, measurement of area, volume, and perimeter, fractional parts of a number, and word problems.

H. Course Objectives

- A. Place value
- B. Reading and writing whole number
- C. Number line
- D. Rounding
- E. Operations
- F. Powers of 10
- G. Rounding decimal numbers
- H. Points, lines, and rays
- I. Angles
- J. Perimeter
- K. Prime and composite numbers
- L. Expanding and reducing fractions
- M. Area
- N. Average, mode, median, mean
- O. Unit multipliers
- P. Rate word problems
- Q. Exponents and roots
- R. Order of operations
- S. Volume
- T. Ratio and proportion
- U. Percent
- V. Circles
- W. Negative numbers
- X. Absolute value
- Y. Operations with signed numbers
- Z. Variables
- AA. Opposites
- BB.** Markup - Markdown
- CC. Complementary and supplementary angles
- DD.** Probability
- EE. Polygons, parallelograms, trapezoids FF.
Permutations
- GG. Graphing a line

III. Course Outline

- A. First Quarter
 - 1. Lessons 1-35
 - 2. Practice Sets 1-35
 - 3. Problems Sets (2 per week)

B. Second Quarter

1. Lessons 36-70
2. Practice Sets 36-70
3. Problems Sets (2 per week)

C. Third Quarter

1. Lessons 71-105
2. Practice Sets 71-105
3. Problems Sets (2 per week)

D. Fourth Quarter

1. Lessons 106-137
2. Practice Sets 106-137
3. Problems Sets (2 per week)

IV. Instructional Materials

Algebra 1/2: An Incremental Development, Second Edition, John H. Saxon, Jr., Saxon Publishers, Inc, 1993.

V. Teaching Methods

- A. One-one-One tutoring
- B. Individual Practice
- C. Periodic tests

VI. Evaluation**A. Components**

1. Vocabulary notebook
2. Mastery of signs
3. Interpretations skills

B. Grading Scale

1. 100-90 % = A
2. 89 - 80 % = B
3. 79 - 70 % = C
4. 69 - 60 % = D
5. Lower than 59 % = F