Prealgebra 2 Syllabus

**Session 1**

**Chapter 1  Prealgebra 1 Recap**

Week ①
1.1 Arithmetic Rules
1.2 Greatest Common Factor (gcf)
1.3 Least Common Multiple (lcm)

Week ②
1.4 Arithmetic Operations with Fractions and Decimals

Week ③
1.5 Algebraic Expressions

Week ④
1.6 Percent, Percent Increase or Decrease

Week ⑤
Review Chapter 1
Quiz #1

**Chapter 2  Equations, Ratios, Complex Fractions, and Repeating Decimals**

Week ⑥
2.1 Solving Linear Equations with fraction and decimal coefficients
2.2 Solving Equations with absolute values
2.3 Solving inequalities

Week ⑦
2.4 Ratios
   2.4.1 Multi-Way Ratios
   2.4.2 Speed and Rate

Week ⑧
2.5 Complex Fractions
2.6 Repeating Decimals

Week ⑨
Review Chapter 1 & 2
Quiz #2
Chapter 3 Introduction to Graphing and Statistics

Week ⑩
3.1 Tables, Pictographs, Bar Graphs (Charts), Pie Charts, and Line Graphs (Charts)

Week ⑪
3.2 Mean, Median, Mode, and Range

Week ⑫
3.3 Graphing Linear Equations and Stem-and-Leaf Plot

Week ⑬
Review Chapter 1, 2, & 3
Quiz #3

Week ⑭ Review and Final Exam

Chapter 4 Basic Geometry

Week ⑮
4.1 Lines and Angles
4.2 The Properties of Parallel Lines
Prealgebra 2 Syllabus

Session 2

Chapter 4  Basic Geometry

Week ①
4.3 Polygons

Week ②
4.4 Perimeters and Areas
   4.4.1 Perimeters
   4.4.2 Areas

Week ③
4.5 Circumference and Area of Circles

Week ④
Review Chapter 4
Quiz #1

Chapter 5  Triangles

Week ⑤
5.1 Right Triangles and Pythagorean Theorem
   5.1.1 Triangles
   5.1.2 Pythagorean Theorem

Week ⑥
5.2 Special Triangles
   5.2.1 Isosceles and Equilateral Triangles
   5.2.2 Isosceles Right Triangles and 30-60-90 Triangles

Week ⑦
5.3 Quadrilaterals
   5.3.1 Square, Rectangle, Parallelogram, and Trapezoid
   5.3.2 Kite and Rhombus

Week ⑧
Review Chapter 4 & 5
Quiz #2
Chapter 6  Basic Counting

Week 9
6.1 Basic Counting with Addition and Subtraction
6.2 The Multiplication Principle

Week 10
6.3 Counting by Cases
6.4 Counting Pairs

Week 11
6.5 Probability

Week 12
Review Chapter 4, 5, & 6
Quiz #3

Chapter 7  Problem Solving Strategies

Week 13
7.1 Problem Solving Basics

Week 14  Final Exam

Week 15
7.2 Advanced Problem Solving Techniques