Prealgebra 2 Syllabus

Session 1

Chapter 1 Prealgebra 1 Recap

Week①

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

Week②

1.4 Arithmetic Operations with Fractions and Decimals

Week③

1.5 Algebraic Expressions

Week④

1.6 Percent, Percent Increase or Decrease

Week⑤

Review Chapter 1
Quiz #1

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

Week⑥

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

Week⑦

2.4 Ratios
    2.4.1 Multi-Way Ratios
    2.4.2 Speed and Rate

Week⑧

2.5 Complex Fractions
2.6 Repeating Decimals

Week⑨

Review Chapter 1 & 2
Quiz #2

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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

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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

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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