Mathematics 7 Syllabus

Math - Benchmark #1

Integers - (7.NS.1; 7.NS.2; 7.NS.3)
1.1 – Integers and Absolute Value
1.2 – Adding Integers
1.3 – Subtracting Integers
1.4 – Multiplying Integers
1.5 – Dividing Integers

(All without calculators)

Math - Benchmark #2

Rational Numbers - (7.NS.1; 7.NS.2; 7.NS.3)
2.1 – Rational Numbers
2.2 – Adding Rational Numbers
2.3 – Subtracting Rational numbers
2.4 – Multiplying and Dividing Rational Numbers

(All without calculators)

Expressions and Equations - (7.NS.2; 7.EE.1; 7.EE.2; 7.EE.3; 7.EE.4)
3.1 – Algebraic Expressions
3.2 – Adding & Subtracting Linear Expressions
3.3 – Solving Equations Using Addition or Subtraction
3.4 – Solving Equations Using Multiplication or Division
3.5 – Solving Two-Step Equations

(All without calculators)

Math - Benchmark #3

Ratios and Proportions - (7.RP.1; 7.RP.2; 7.RP.3)
5.1 – Ratios and Rates
5.2 – Proportions
5.3 – Writing Proportions
5.4 – Solving Proportions
5.5 – Slope
5.6 – Direct Variation

Math - Benchmark #4

Percents - (7.EE.3; 7.RP.3)
6.1 – Percents and Decimals
6.2 – Comparing and Ordering Fractions, Decimals, and Percents
6.3 – The Percent Proportion
6.4 – The Percent Equation
6.5 – Percents of Increase and Decrease
6.6 – Discounts and Markups
6.7 – Simple Interest

Inequalities - (7.EE.1; 7.EE.2; 7.EE.3; 7.EE.4)
4.1 – Writing and Graphing Inequalities
4.2 – Solving Inequalities Using Addition or Subtraction
4.3 – Solving Inequalities Using Multiplication or Division
4.4 – Solving Two-Step Inequalities
(All without calculators)

Math Lab – 1st/2nd Quarter

Probability and Statistics - (7.SP.1; 7.SP.2; 7.SP.3; 7.SP.4; 7.SP.5; 7.SP.7; 7.SP.8)
10.1 – Outcomes and Events
10.2 – Probability
10.3 – Experimental and Theoretical Probability
10.4 – Compound Events
10.5 – Independent and Dependent Events
10.6 – Samples and Populations
10.7 – Comparing Populations

Constructions and Scale Drawings - (7.G.1; 7.G.2; 7.G.5)
7.1 – Adjacent and Vertical Angles
7.2 – Complementary and Supplementary Angles
7.3 – Triangles
7.4 – Quadrilaterals
7.5 – Scale Drawings

Math Lab – 3rd/4th Quarter

Circles and Area - (7.G.4; 7.G.6)
8.1 – Circles and Circumference
8.2 – Perimeters of Composite Figures
8.3 – Area of Circles
8.4 – Area of Composite Figures

Surface Area and Volume - (7.G.3; 7.G.4; 7.G.6)
9.1 – Surface Areas of Prisms
9.2 – Surface Areas of Pyramids
9.3 – Surface Area of Cylinders
9.4 – Volumes of Prisms
9.5 – Volumes of Pyramids