**Algebra I –Semester 2 Pacing Guide**

Unit 6 – Exponents, Exponents, Exponents and More Exponents

Zero and Negative Exponents (Pearson 7-1 & 7-2) 2 days

(Use Supplemental materials) (Simplifying)

Exponent Rules for Multiplying (Pearson 7-3 & 7-4) 2 days

Exponent Rule for Dividing (Pearson 7-5) 1 day

Exponential Growth and Decay (6 – 3) 1 day

Exponential Functions (6 – 4) 1 day

Percent Review (6 – 5) 1 day

Percent Increase and Decrease (6-6) 1 day

Exponential Models Based on Percent Growth (6 -7) 1 day

Linear Versus Exponential (Include end behaviors) (6 – 8) 1 day

Geometric Sequences (6 – 9) and Pearson 1 day

Review and Assessment 2 days

Unit 7 – Polynomials

Introduction to Polynomials (Types and Degrees) (7-1) 1 day

Adding and Subtracting Polynomials 2 days

Multiplying Polynomials (7 – 2) 2 days

Factoring Polynomials (7 – 3) (GCF and Pairs) 3 days

Factoring Based on Conjugate Pairs (Difference of 2 squares) (7 – 4) 2 days

Factoring Trinomials (7 – 5) (Bottoms Up) 3 days

More Work with Factoring Trinomials (Group) (7-6) 2 days

Assessment and Review 2 days

Unit 8 – Quadratic Functions and Their Algebra

Introduction to Quadratic Functions (8 - 1) (Include end behaviors)

(Standard form, domain, range, vertex, line of symmetry) 1 day

More Work with Parabolas (Minimum & Maximum) (8 – 2) 1 day

The Shifted Form of a Parabola (8 – 3) (Transformations) 1 day

Vertex Form (Supplemental material) 1 day

Completing the Square (8 – 4) 1 day

Stretching Parabolas (8 – 5) 1 day

The Zeroes of a Quadratic (8 – 6) 2 days

More Zero Product Law Work (8 – 7) 1 day

Quadratic Word Problems (8 – 8) (11 – 7) 1 day

Assessment 1 day

Unit 9 – Roots and Irrational Numbers

Square Roots (9 – 1) 1 day

Irrational Numbers (9 – 2) 1 day

Square Root Functions and Shifting (9 – 3) 1 day

Solving Quadratics Using Inverse Operations (9 – 4) 1 day

Finding Zeroes by Completing the Square (9 – 5) 1 day

The Quadratic Formula (9 – 6) 1 day

Discriminant 1 day

Final Work with Quadratic Equations (9 – 7) 1 day

Cube Roots (9 – 8) 1 day

Assessment 1 day

Unit 10 – Statistics

Graphical Displays of Data (10 – 1) 1 day

Quartiles and Box Plots (10 – 2) 2 days

Measures of Central Tendency (10 – 3) 1 day

Variation within a Data Set (10 – 4) 1 day

Two Way Frequency Tables (10 – 5) 2 days

Bivariate Data Analysis (10 – 6) 1 day

Linear Regression on the Calculator (10 – 7) 1 day

Other types of Regression (10 – 8) 1 day

Quantifying Predictability (10 – 9) 1 day

Residuals (10 – 10) 1 day

Assessment 1 day

Review for TN Ready Assessment 15 days

After TN Ready:

Radicals (Operations of Addition, Subtraction, and Multiplication)

Probability (Simple and Compound)

Review 1 day

Exams 2 days