Integrated Math II Pacing Guide

Unit 1: Prerequisite Skills

1.1 Two-Step Equations

1.2 Multistep Equations and the Distributive Property

1.3 Multistep Equations and the Distributive Property Part II

1.4 Calculating Slope Using a Graph

1.5 Calculating Slope with dy/dx

1.6 Equation of a Line

1.7 The Product Property

1.8 The Quotient Property

1.9 Zero and Negative Exponents

Unit 1 Review

Unit 1 Test

Unit 1 Completion – 11 Days

Unit 2: Polynomials

2.1 Introduction to Polynomials

2.2 Adding Polynomials

2.3 Subtracting Polynomials

2.4 Adding and Subtracting Polynomials with More than One Variable

2.5 Multiplying Polynomials

2.6 Common Factoring

2.7 Factoring Polynomials Using the Greatest Common Factor

2.8 Factoring Perfect Square Trinomials

2.9 Factoring Differences of Squares

2.10 Factoring Trinomials

2.11 Solving Equations Using Factoring

Unit 2 Review

Unit 2 Test

Unit 2 Completion – 13 Days

Unit 3: Quadratic Functions

3.1 Introduction to Quadratic Functions

3.2 Graphing Quadratic Functions

3.3 Graphing Quadratic Functions in Vertex Form

3.4 Solving Equations with Square Roots

3.5 Solving Quadratics by Completing the Square

3.6 Converting to Vertex Form by Completing the Square

3.7 The Quadratic Formula

3.8 Graphing Quadratic Inequalities

3.9 Applications of Quadratics

Unit 3 Review

Unit 3 Test

Unit 3 Completion – 11 Days

Unit 4: Rational Functions

4.1 Introduction to Rational Functions

4.2 Simplifying Rational Expressions

4.3 Adding & Subtracting Rational Expressions

4.4 Multiplying Rational Expressions

4.5 Dividing Rational Expressions

4.6 Solving Rational Equations

4.7 Graphing Rational Functions

Unit 4 Review

Unit 4 Test

Unit 4 Completion – 9 Days

Unit 5: Radical Functions

5.1 Introduction to Radical Functions

5.2 Prime Factors

5.3 Square Roots

5.4 Simplifying Numerical Radicals

5.5 Simplifying Algebraic Radicals

5.6 Adding and Subtracting Radicals

5.7 Multiplying Radicals

5.8 Dividing Radicals

5.9 Solving Radical Equations

5.10 Graphing Radical Functions

Unit 5 Review

Unit 5 Test

Unit 5 Completion – 12 Days

Unit 6: Functions

6.1 Introduction to Functions

Unit 6 Completion – 13 Days

Unit 7: Circles

Unit 7 Completion – 8 Days

Midterm

Midterm Exam Review – 3 Days

Midterm Exam – 1 Day

Midterm Exam Completion – 4 Days

Unit 8: Perimeter

8.1 Introduction to Perimeter

8.2 Perimeter of Triangles

8.3 Perimeter of Quadrilaterals

8.4 Perimeter of Polygons

8.5 Circumference of a Circle

8.6 Perimeter of Irregular shapes

Unit 8 Review

Unit 8 Test

Unit 8 Completion – 8 Days

Unit 9: Area

9.1 Introduction to Area

9.2 Area of Squares and Rectangles

9.3 Area of Triangles

9.4 Area of Parallelograms

9.5 Area of Trapezoids

9.6 Area of a Circle

9.7 Area of a Sector

9.8 Area of Regular Polygons

9.9 Area of Irregular Shapes

Unit 9 Review

Unit 9 Test

Unit 9 Completion – 11 Days

Unit 10: 3D Geometry and Volume

10.1 Introduction to 3D Geometry

10.2 Volume of Rectangular Prisms

10.3 Volume of Other Prisms

10.4 Volume of Pyramids

10.5 Volume of Cylinders

10.6 Volume of Cones

10.7 Volume of a Sphere

Unit 10 Review

Unit 10 Test

Unit 10 Completion – 9 Days

Unit 11: 3D Geometry and Surface Area

11.1 Introduction to Surface Area

11.2 Surface Area of Prisms

11.3 Surface Area of Pyramids

11.4 Surface Area of Cylinders

11.5 Surface Area of Cones

11.6 Surface Area of a Sphere

Unit 11 Review

Unit 11 Test

Unit 11 Completion – 8 Days

Unit 12: Geometry in the Coordinate Plane

12.1 Introduction to Geometry in the Coordinate Plane

12.2 Distance in the Coordinate Plane

12.3 Midpoint Formula

12.4 Length of 2D Figures in the Coordinate Plane

12.5 Perimeter in the Coordinate Plane

12.6 Area in the Coordinate Plane

12.7 Equation of a Circle

12.8 Quadrilaterals in the Coordinate Plane

Unit 12 Review

Unit 12 Test

Unit 12 Completion – 10 Days

Unit 13: Transformations

13.1 Introduction to Transformations

13.2 Translations

13.3 Reflections

13.4 Rotations

13.5 Dilations

13.6 Multiple Transformations & Applications

Unit 13 Review

Unit 13 Test

Unit 13 Completion – 8 Days

Unit 14: Trigonometry

14.1 Introduction to Trigonometry

14.2 Sine Ratio

14.3 Cosine Ratio

14.4 Tangent Ratio

Unit 14 Review

Unit 14 Test

Unit 14 Completion – 6 Days

Final Exam

Final Exam Review – 4 Days

Final Exam – 1 Day

Final Exam Completion – 5 Days

Note: One day is allotted for each lesson, unit test and unit review. Quizzes are to be taken on the same day as the previous lesson.

Total: 146 Days

29.2 five-day weeks or 36.5 four-day weeks