Integrated Math I Pacing Guide

Unit 1: Prerequisite Skills

1.1 Integers and Absolute Value

1.2 Subtracting Integers

1.3 Order of Operations

1.4 Evaluating Expressions Using Substitution

1.5 Like Terms

1.6 Distributive Property

1.7 Greatest Common Factor

1.8 Least Common Multiple

1.9 Reciprocals and Dividing Fractions

1.10 Cancelling to Simplify Multiplication and Division

1.11 Adding and Subtracting Fractions with Unlike Denominators

1.12 Ratio and Proportion

1.13 Unit Rate and Proportions

1.14 Length Conversions in the Imperial System

1.15 Mass Conversions in the Imperial System

1.16 Capacity Conversions in the Imperial System

Unit 1 Review

Unit 1 Test

Unit 1 Completion – 18 Days

Unit 2: Equations

Unit 2 Completion – 11 Days

Unit 3: Linear Functions

Unit 3 Review

Unit 3 Test

Unit 3 Completion – 16 Days

Unit 4: Inequalities and Absolute Value Functions

4.1 Introduction to Inequalities and Absolute Value Functions

4.2 Writing Solution Sets

4.3 Graphing Inequalities in One Dimension

4.4 Solving Multistep Inequalities

4.5 Compound Inequalities

4.6 Solving Compound Inequalities

4.7 Inequalities in 2D

4.8 Absolute Value & Inequalities

4.9 Graphing the Absolute Value Function

Unit 4 Review

Unit 4 Test

Unit 4 Completion – 11 Days

Unit 5: Systems of Equations and Inequalities

5.1 Introduction to Systems of Equations and Inequalities

5.2 Graphing Systems of Equations

5.3 Graphing Inequalities

5.4 Graphing Systems of Inequalities

5.5 Solving Systems of Equations by Substitution

5.6 Solving Systems of Equations by Elimination

5.7 Identifying Types of Systems of Equations

5.8 Writing Equations

5.9 Applications of Systems of Equations and Inequalities

Unit 5 Review

Unit 5 Test

Unit 5 Completion – 11 Days

Unit 6: Exponential Functions

6.1 Introduction to Exponents

6.2 The Product Property

6.3 The Quotient Property

6.4 Zero and Negative Exponents

6.5 Fractional Exponents

6.6 Power of a Power Property

6.7 Power of a Product Property

6.8 Power of a Fraction Property

6.9 Order of Operations with Exponents

6.10 Simplifying Algebraic Expressions with Exponents

6.11 Scientific Notation

6.12 Scientific Notation Part II

6.13 Scientific Notation Part III

6.14 Exponential Growth

6.15 Exponential Decay

Unit 6 Review

Unit 6 Test

Unit 6 Completion – 17 Days

Unit 7: Logic and Proofs

7.1 Introduction to Logic and Proofs

7.2 Conditions and Sets

7.3 Conditional Statements

7.4 Equivalence Properties

7.5 Writing Proofs

Unit 7 Review

Unit 7 Test

Unit 7 Completion – 7 Days

Midterm

Midterm Exam Review – 3 Days

Midterm Exam – 1 Day

Midterm Exam Completion – 4 Days

Unit 8: Distance and Length

8.1 Introduction to Geometry

8.2 Segments, Rays and Length

8.3 Segment Addition Postulate

8.4 Overlapping Segments Theorem

8.5 Congruent Segments

Unit 8 Review

Unit 8 Test

Unit 8 Completion – 7 Days

Unit 9: Angles, Lines and Transversals

9.1 Angles and Measure

9.2 Angle Addition Postulate

9.3 Congruent Angles

9.4 Angle Pairs

9.5 Lines, Planes and Transversals

9.6 Transversals and Angle Pairs

9.7 Transversals and Parallel Lines

9.8 Perpendicular Lines

Unit 9 Review

Unit 9 Test

Unit 9 Completion – 10 Days

Unit 10: Triangles

10.1 Introduction to Triangles

10.2 Classifying Triangles by Side Length

10.3 Classifying Triangles by Angles

10.4 Triangle Sum Theorem

10.5 Exterior Angle Theorem

10.6 Similar Triangles

10.7 Using Similar Triangles to Solve Problems

10.8 Congruent Triangles

10.9 Congruent Triangles Part II

10.10 Pythagorean Theorem

Unit 10 Review

Unit 10 Test

Unit Completion – 12 Days

Unit 11: Polygons

11.1 Introduction to Polygons

11.2 Classification of Polygons

11.3 Quadrilaterals - Rectangles

11.4 Quadrilaterals - Parallelograms

11.5 Quadrilaterals - Trapezoids

11.6 Interior & Exterior Angles of Polygons

11.7 Similar Polygons

Unit 11 Review

Unit 11 Test

Unit 11 Completion – 9 Days

Unit 12: Analyzing Data

12.1 Introduction to Analyzing Data

12.2 Pictographs and Line Graphs

12.3 Bar Graphs

12.4 Stem-and-Leaf Plots

12.5 Measures of Central Tendency

12.6 Measures of Central Tendency Part II

12.7 Box-and-Whisker Plots

12.8 Circle Graphs

Unit 12 Review

Unit 12 Test

Unit 12 Completion – 10 Days

Unit 13: Probability

13.1 Introduction to Probability

13.2 Simple Probability

13.3 Fundamental Counting Principle

13.4 Independent Events

13.5 Dependent Events

13.6 Compound Probability

13.7 Experimental and Theoretical Probability

13.8 Set Theory and Venn Diagrams

13.9 Set Theory Part II – Intersection and Union

13.10 Set Theory Part III – Disjoint and Complement

13.11 Applications of Probability

Unit 13 Review

Unit 13 Test

Unit 13 Completion – 13 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: 161 Days

32.2 five-day weeks or 40.25 four-day weeks