

Grade 9 Manitoba 2025 Transitional Mathematics I and II: Mathology Correlation

Transitional Mathematics I	Mathology Lessons
Unit A: Learning to Learn	N/A
Unit B: Smart Math	N/A
Unit C: Investigations	N/A
Unit D: Activities for Skill Development	
I-D-1. Visualize, compare and explain fractions.	Grade 6: Representing Fractions Grade 6: Comparing and Ordering Fractions Grade 7: Comparing and Ordering Fractions and Decimals
I-D-2. Round and estimate whole numbers and decimals.	Grade 5: Estimating to Solve Problems Grade 5: Rounding Decimals Grade 6: Comparing and Ordering Decimals Grade 6: Estimating Reasonableness of Solutions (with whole numbers)
I-D-3. Apply arithmetic operations on fractions.	Grade 7: Adding Fractions and Mixed Numbers Grade 7: Subtracting Fractions and Mixed Numbers Grade 8: Multiplying Fractions and Mixed Numbers Grade 8: Dividing Fractions and Mixed Numbers Grade 8: Applying the Order of Operations with Fractions and Mixed Numbers
I-D-4. Identify the operation(s) needed in problem solving.	Grade 6: Solving Problems with Whole Numbers Grade 7: Solving Problems Involving Integers Grade 8: Solving Problems Involving Ratios, Rates, and Proportions Grade 8: Solving Problems with Positive Rational Numbers
I-D-5. Understand and apply concepts and vocabulary related to triangles.	Grade 6: Classifying Triangles Grade 6: Identifying and Constructing Triangles Grade 7: Determining the Area of Triangles and Parallelograms Grade 9: Investigating Similar Triangles and Similar Polygons
I-D-6. Read and interpret various line graphs.	Grade 6: Exploring Line Graphs Grade 6: Interpreting Graphs to Solve Problems Grade 8: Presenting Data Graphically
Unit E: Money Management	
I-E-1. Make decisions concerning purchasing, and justify those decisions using a five-step purchase process.	Grade 4: Making Good Purchases Grade 5: Finding Best Value (Unit Rates) Grade 8: Making the Most of Your Money Grade 8: Solving Problems Involving Coupons and Discounts Grade 8: Calculating the Best Buy
I-E-2. Prepare a written report outlining an item to be purchased, researching the best buy, investigating options, and summarizing the final decisions.	N/A
Unit F: Scheme-A-Team	N/A

Transitional Mathematics II	Mathology Lessons
Unit A: Learning to Learn	N/A
Unit B: Smart Math	N/A
Unit C: Investigations	N/A
Unit D: Activities for Skill Development	
II-D-1. Translate between written and algebraic expressions or between algebraic and written expressions.	Grade 6: Investigating Algebraic Expressions Grade 7: Writing an Expression to Describe a Linear Pattern Grade 8: Writing and Evaluating Algebraic Expressions
II-D-2. Substitute and determine the values for first-degree algebraic expressions, given the value of one or more variables.	Grade 7: Evaluating Expressions and Writing Equations Grade 7: Evaluating Algebraic Expressions Grade 8: Evaluating Algebraic Expressions (more than one variable) Grade 8: Writing and Evaluating Algebraic Expressions
II-D-3. Simplify algebraic expressions through the collection of like terms.	Grade 6: Investigating Algebraic Expressions Grade 7: Adding and Subtracting Monomials Grade 8: Working with Monomials and Binomials Grade 9: Adding and Subtracting Polynomial Expressions
II-D-4. Multiply monomials by monomials.	Grade 9: Multiplying and Dividing Polynomial Expressions
II-D-5. Multiply polynomials by a constant using the distributive property.	Grade 9: Representing and Evaluating Polynomials Grade 9: Multiplying and Dividing Polynomial Expressions
II-D-6. Solve and verify solutions to one- and two-step linear equations containing one variable.	Grade 6: Writing and Solving Equations Grade 7: Modelling and Solving One-Step Linear Equations Grade 7: Modelling and Solving Multi-Step Linear Equations Grade 8: Solving Linear Equations Using Models Grade 8: Solving Linear Equations Algebraically Grade 8: Solving Equations Involving the Distributive Property Grade 8: Solving Problems Using Linear Equations Grade 9: Modelling and Solving Linear Equations
II-D-7. Identify the number of different terms in any given polynomial.	Grade 9: Representing and Evaluating Polynomials
Unit E: Nutrition and Fitness	N/A
Unit F: Create Your Space	
II-F-1. Make decisions concerning room renovations and justify those decisions both practically and mathematically.	N/A
II-F-2. Prepare and present a written report outlining and justifying design considerations including measurements, scale drawings, and the cost of materials for a room renovation project.	Grade 6: Determining the Perimeter of Polygons Grade 6: Determining the Area of Rectangles Grade 7: Determining the Area of Triangles and Parallelograms Grade 7: Scale Drawings Grade 8: Using Scale Drawings Grade 9: Drawing and Interpreting Scale Drawings