Reasoning Through Language Arts

Unit 1: The Reading Process
• Lesson 1 – What is Reading?
• Lesson 2 – Pre-Reading
• Lesson 3 – During Reading
• Lesson 4 – After Reading

Unit 2: Vocabulary and Word Skills
• Lesson 1 – Understanding Word Parts
• Lesson 2 – Vocabulary in Context
• Lesson 3 – Confused Pairs
• Lesson 4 – Learning Vocabulary

Unit 3: Reading Comprehension Skills
• Lesson 1 – Main Ideas
• Lesson 2 – Details
• Lesson 3 – Inferences

Unit 4: Patterns of Organization
• Lesson 1 – Fact and Opinion
• Lesson 2 – Cause and Effect & Compare and Contrast
• Lesson 3 – Time Order, Narrative Process
• Lesson 4 – Classification, Description and Listing of Examples

Unit 5: Purpose and Tone
• Lesson 1 – Purpose and Tone
• Lesson 2 – Informative Reading
• Lesson 3 – Reading for Pleasure

Unit 6: Graphics and Electronic Texts
• Lesson 1 – Reading Graphics with Understanding
• Lesson 2 – Reading Electronic Texts

For more information, contact:
Center for the Application of Information Technologies

Email: info@i-pathways.org
Phone: 309-298-1804
Unit 7: The Writing Process
• Lesson 1 – Paragraphs and Sentences
• Lesson 2 – Patterns of Organization
• Lesson 3 – The Writing Process
• Lesson 4 – Introduction to Referencing Materials

Mathematics

Unit 1: Introduction to Real Numbers
• Lesson 1 – Integers
• Lesson 2 – Addition with Integers
• Lesson 3 – Subtraction with Integers
• Lesson 4 – Adding and Subtracting Signed Numbers
• Lesson 5 – Multiplication, Division and Order of Operations with Integer Numbers
• Lesson 6 – Multiplication, Division and Order of Operations with Rational Numbers

Unit 2: Variables and Algebraic Expressions
• Lesson 1 – Variables and Algebraic Expressions
• Lesson 2 – Combining Like Terms and Simplifying Expressions
• Lesson 3 – Solving Algebraic Equations Using the Addition and Subtraction Principle
• Lesson 4 – Solving Algebraic Equations Using the Multiplication Principle
• Lesson 5 – Solving Algebraic Equations Using the Multiplication and Addition Principle
• Lesson 6 – Solving Algebraic Equations with Fractions and Decimals
• Lesson 7 – Translating and Word Problems
• Lesson 8 – Solving Linear Equations
• Lesson 9 – Solving Linear Equations Which Have the Variable on Both Sides
• Lesson 10 – Solving Literal Equations
• Lesson 11 – Use Linear Equations to Solve Word Problems
• Lesson 12 – Probability, Combinations, and Permutations

Unit 3: Introduction to Geometry
• Lesson 1 – Points, Lines, Planes, and Angles
• Lesson 2 – Classifying Triangles and the Pythagorean Theorem
• Lesson 3 – Classifying Quadrilaterals
• Lesson 4 – Circles
• Lesson 5 – Perimeter and Area of Polygons
• Lesson 6 – Volume
Unit 4: Linear Inequalities in One Variable
• Lesson 1 – Set Notation, Interval Notation, and Terminology
• Lesson 2 – Solve and Graph Single Linear Inequalities
• Lesson 3 – Solve and Graph Compound Linear Inequalities in One Variable
• Lesson 4 – Solve Linear Equations and Inequalities Containing Absolute Value

Unit 5: Linear Functions
• Lesson 1 – Introduction to Graphing
• Lesson 2 – Representing, Displaying, and Interpreting Data in Graphics
• Lesson 3 – Graphing Linear Functions Using a Table of Values
• Lesson 4 – Graphing Horizontal and Vertical Lines
• Lesson 5 – Graphing Linear Functions Using Intercepts
• Lesson 6 – Rate of Change – Understanding Slope in Context
• Lesson 7 – Slope of a Line
• Lesson 8 – Equations of Lines (Slope-Intercept and Point-Slope Form)
• Lesson 9 – Graphing Linear Functions in Slope-Intercept Form
• Lesson 10 – Applications of Linear Functions
• Lesson 11 – Write the Equation of a Line Perpendicular or Parallel to a Given Line
• Lesson 12 – Graph Linear Inequalities in Two Variable

Unit 6: Polynomials and Factoring
• Lesson 1 – Introduction to Polynomials
• Lesson 2 – Addition and Subtraction in Polynomials
• Lesson 3 – Multiplication of Polynomials
• Lesson 4 – Division of Polynomials
• Lesson 5 – Factoring by Greatest Common Factor and Grouping
• Lesson 6 – Factoring Differences of Squares
• Lesson 7 – Factoring Trinomials
• Lesson 8 – Factoring Sum and Difference of Cubes
• Lesson 9 – Solving Equations by Factoring
• Lesson 10 – Applications: Word Problems
• Lesson 11 – Equations in Quadratic Form
Science

Unit 1: Scientific Methods and Technology
• Lesson 1 – Science as Inquiry
• Lesson 2 – Science and Technology

Unit 2: Life Science
• Lesson 1 – The Human Body
• Lesson 2 – The Cell
• Lesson 3 – Molecular Basis of Heredity
• Lesson 4 – Understanding Evolution
• Lesson 5 – Form and Function
• Lesson 6 – Interdependence of Organisms
• Lesson 7 – Behavior of Organisms

Unit 3: Physical Science
• Lesson 1 – Structure and Properties of Matter
• Lesson 2 – Chemical Reactions
• Lesson 3 – Motion and Forces
• Lesson 4 – Systems, Order and Organization
• Lesson 5 – Interactions of Energy and Matter

Unit 4: Earth and Space Science
• Lesson 1 – Energy in the Earth System
• Lesson 2 – Evolution of the Earth System
• Lesson 3 – Origin and Evolution of the Universe
• Lesson 4 – Preservation of the Earth and its Resources

Unit 7: Rational Expressions
• Lesson 1 – Simplifying Rational Expressions and Determining Excluded Values
• Lesson 2 – Multiplication and Division of Rational Expressions
• Lesson 3 – Addition and Subtraction of Rational Expressions
• Lesson 4 – Perform Operations with Complex Fractions
• Lesson 5 – Solve Equations with Rational Expressions
• Lesson 6 – Rational Exponents
• Lesson 7 – Applications: Word Problems

For more information, contact:
Center for the Application of Information Technologies
Email: info@i-pathways.org
Phone: 309-298-1804
Social Studies

**Unit 1: Civics and Government**
- Lesson 1 – Modern and Historical Governments
- Lesson 2 – American Constitutional Democracy
- Lesson 3 – Structure and Design of United States Government
- Lesson 4 – Political Parties, Campaigns, Elections, Electoral Process, and Contemporary Public Policy

**Unit 2: United States History**
- Lesson 1 – Revolutionary and Early Republic Periods
- Lesson 2 – Civil War and Reconstruction
- Lesson 3 – Civil Rights
- Lesson 4 – A World at War
- Lesson 5 – The Cold War and Foreign Policy Since 9/11

**Unit 3: Economics**
- Lesson 1 – Fundamental Economic Concepts
- Lesson 2 – Microeconomics and Macroeconomics
- Lesson 3 – Key Economic Events Shaping American Government and Policies
- Lesson 4 – Consumer Education

**Unit 4: Geography and the World**
- Lesson 1 – Development of Classical Civilizations
- Lesson 2 – Relationship Between the Environment and Societal Development
- Lesson 3 – Borders Between People and Nations

Basic Writing

**Unit 1: Sentence Structure**
- Lesson 1 – Identifying and Using Parts of Speech
- Lesson 2 – Punctuation
- Lesson 3 – Understanding Sentence Structure
- Lesson 4 – Combining Sentences
- Lesson 5 – Errors in Grammar
Unit 2: Paragraph Writing
• Lesson 1 – Introduction to the Writing Process
• Lesson 2 – Sentences and Paragraphs
• Lesson 3 – Patterns of Development Part I
• Lesson 4 – Patterns of Development Part II

Unit 3: Effective Sentences
• Lesson 1 – Word Choice
• Lesson 2 – Sentence Variety
• Lesson 3 – Sentence Clarity
• Lesson 4 – Revising and Editing

Unit 4: Introduction to Referencing Materials
• Lesson 1 – Gathering Information and Citing Resources
• Lesson 2 – Summarizing, Paraphrasing, and Quoting

Unit 5: Essay Writing
• Lesson 1 – The Writing Process
• Lesson 2 – Essay Development
• Lesson 3 – Writing Strategies

Basic Math

Unit 1: Whole Numbers – Place Value, Rounding and Estimating
• Lesson 1 – Place Value, Rounding, and Estimating
• Lesson 2 – Whole Numbers – Addition, Subtraction, Multiplication and Division
• Lesson 3 – Mean, Median, Mode and Range
• Lesson 4 – Exponents
• Lesson 5 – Order of Operations
• Lesson 6 – Prime Numbers
• Lesson 7 – Prime Factorization
• Lesson 8 – Prime Numbers and Least Common Multiples
• Lesson 9 – Problem Solving

For more information, contact:
Center for the Application of Information Technologies
Email: info@i-pathways.org
Phone: 309-298-1804
Unit 2: Fractions and Mixed Numbers
- Lesson 1 – Introduction to Fractions
- Lesson 2 – Multiplication with Fractions
- Lesson 3 – Dividing Fractions
- Lesson 4 – Adding Fractions
- Lesson 5 – Subtraction with Fractions
- Lesson 6 – Mixed Numbers
- Lesson 7 – Multiplying and Dividing with Mixed Numbers
- Lesson 8 – Adding and Subtracting Mixed Numbers

Unit 3: Decimals
- Lesson 1 – Decimal Numbers
- Lesson 2 – Addition and Subtraction with Decimal Numbers
- Lesson 3 – Multiplication and Division with Decimal Numbers
- Lesson 4 – Introduction to Decimals, Fractions, and Percentages

Unit 4: Ratios and Proportions
- Lesson 1 – Ratio and Price Per Unit
- Lesson 2 – Ratios and Proportions
- Lesson 3 – Finding the Unknown Term in Proportions
- Lesson 4 – Problem Solving with Proportions
- Lesson 5 – Proportions in Geometry

Unit 5: Percents
- Lesson 1 – Decimals and Percentages
- Lesson 2 – Fractions and Percentages
- Lesson 3 – Applications with Percentages
- Lesson 4 – Simple Interest
- Lesson 5 – Percent of Increase and Percent of Decrease