

The background consists of several overlapping triangles in various shades of blue, creating a dynamic geometric pattern. A horizontal yellow banner is positioned across the middle of the image, containing the main title text.

i-PATHWAYS ALIGNMENT

ILLINOIS STANDARDS

Table of Contents

REASONING THROUGH LANGUAGE ARTS	5
Unit 1: The Reading Process.....	5
Unit 2: Vocabulary and Word Skills	6
Unit 3: Reading Comprehension Skills	7
Unit 4: Patterns of Organization	8
Unit 5: Purpose and Tone.....	9
Unit 6: Graphics and Electronic Texts	10
WRITING	11
Unit 7: The Writing Process.....	11
SCIENCE	12
Unit 1: Life Science.....	12
Unit 2: Scientific Methods and Technology	14
Unit 3: Physical Science	15
Unit 4: Earth and Space Science.....	16
SOCIAL STUDIES	17
Unit 1: Civics and Government.....	17
Unit 2: United States History	18
Unit 3: Economics.....	19
Unit 4: Geography and the World	20
MATHEMATICS	21
Unit 1: Introduction to Real Numbers	21
Unit 2: Introduction to Algebra	22
Unit 3: Introduction to Geometry.....	24

Unit 4: Linear Inequalities in One Variable	25
Unit 5: Linear Functions.....	26
Unit 6: Polynomials and Factoring.....	27
Unit 7: Rational Expressions	28
BASIC MATHEMATICS	29
Unit 1: Number Sense	29
Unit 2: Prime Numbers and Least Common Multiples.....	31
Unit 3: Decimals	32
Unit 4: Ratios and Proportions.....	33
Unit 5: Percents.....	34
BASIC WRITING	35
Unit 1: Sentence Structure/Mechanics	35
Unit 2: Introduction to the Writing Process	36
Unit 3: Effective Sentences	37
Unit 4: Introduction to Referencing Materials	38
Unit 5: Essay Writing	39
READING IN THE CONTENT AREAS	40
Unit 1: Social Studies	40
Unit 2: Science	42
Unit 3: Math	43

The i-Pathways project provides all ICCB funded programs access to an online High School Equivalency Test Preparation Curriculum that can be used as a classroom supplement, hybrid, or at-a-distance model. The following documents identify the alignment between i-Pathways and the Illinois ABE/ASE Standards.

A team of expert adult educators spanning 12 states developed and vetted the curriculum scope and sequence. Once the curriculum outline was developed, instructors who were experts in the field created and reviewed the content for both instructional approach and relevance toward the High School Equivalency Exam.

Reasoning Through Language Arts

This module helps learners build skills in reading comprehension and vocabulary development through the use of research based instructional strategies. Passages reflect a cross curricular approach by presenting a variety of literary and non-fiction complex texts.

Within the RLA Module, there is a Unit on the Writing Process. This unit connects critical reading strategies with writing strategies such as writing a strong thesis statement, organizing an essay, determining the role of an audience and editing texts.

Mathematics

The Mathematics units and lessons were designed to help students build foundational skills in mathematical reasoning as well as fluency in problem solving and procedural application.

Science

The Science curriculum addresses the standards for the National Research Council's Framework for K-12 Science Education.

Social Studies

The Social Studies curriculum addresses the requirements for the National Standards for History.

Basic Writing

The units in Basic Writing will prepare students for effective writing by providing instruction in language development, writing conventions, and development/organization of ideas.

Basic Math

The Basic Math will provide learners with instruction in number sense and prepare them for the transition into higher-level math.

Reading Through the Content Areas

The Module, *Reading Through the Content Areas*, is divided into three units: Social Studies, Science, and Math. Within these units are lessons designed to provide learners with specific reading strategies in each content area. Within each unit, the lessons build upon each other, integrating more complex text.

REASONING THROUGH LANGUAGE ARTS

The following aligns the Illinois ABE/ASE Content Standards for Language Arts with the Reasoning Through Language Arts Module in i-Pathways.

- **NRS Level 5 – Low Adult Secondary Education (Grade Level 9.0 – 10.9)**
- **NRS Level 6 – High Adult Secondary Education (Grade Level 11.0 – 12.9)**

Illinois Standard	i-Pathways Unit Lesson	Lesson Objectives
Unit 1: The Reading Process		
5.R.VA.1 6.R.VA.3	Lesson 1: What is Reading	<ul style="list-style-type: none">● Identify specific reading strategies.● Apply newly learned reading strategies to a variety of complex literary and real world texts.
5.R.CI.7	Lesson 2: Pre-Reading	<ul style="list-style-type: none">● Define background knowledge and identify how activating background knowledge will improve reading comprehension.● Understand how identifying topic and introductory sentences will improve reading comprehension.
5.R.VA.3	Lesson 3: During Reading	<ul style="list-style-type: none">● Identify an author's purpose in a literary or real world text.● Analyze strategies for making inferences and drawing conclusions.
5.R.CI.8	Lesson 4: After Reading	<ul style="list-style-type: none">● Identify an author's purpose in a literary or real world text.● Analyze strategies for making inferences and drawing conclusions.

Unit 2: Vocabulary and Word Skills		
5.R.VA.2a 6.R.VA.1	Lesson 1: Understanding Word Parts	<ul style="list-style-type: none">• Increase vocabulary by understanding root words.• Apply knowledge of word parts in order to improve reading comprehension.
5.R.VA.2b and c	Lesson 2: Vocabulary in Context	<ul style="list-style-type: none">• Apply a variety of context clues in reading to learn new vocabulary.
5.R.VA.2	Lesson 3: Confused Pairs	<ul style="list-style-type: none">• Identify homonyms and commonly confused words.
5.R.VA.4 6.R.VA.4	Lesson 4: Learning Vocabulary	<ul style="list-style-type: none">• Understand schema and strategies for building vocabulary connections.

Unit 3: Reading Comprehension Skills		
5.R.CI.3 6.R.CI.1	Lesson 1: Main Ideas	<ul style="list-style-type: none">• Determine the main idea in a passage.• Identify a direct and implied main idea.
5.R.CI.3 6.R.CI.1	Lesson 2: Details	<ul style="list-style-type: none">• Define supporting details.• Evaluate a written passage and identify the supporting details.• Differentiate between types of supporting details.
5.R.CI.3 6.R.CI.1	Lesson 3: Inferences	<ul style="list-style-type: none">• Develop strategies for making inferences.

Unit 4: Patterns of Organization		
5.R.CI.4 6.R.CI.10	Lesson 1: Fact and Opinion	<ul style="list-style-type: none">• Differentiate between fact and opinion.
5.R.CI.4	Lesson 2: Cause and Effect & Compare and Contrast	<ul style="list-style-type: none">• Determine cause and effect relationships.• Differentiate between cause and effect.
5.R.CI.4	Lesson 3: Time Order, Narrative Process	<ul style="list-style-type: none">• Identify the time order pattern of organization.• Compare the time order and narrative and narrative pattern of organization.• Define signal words that identify the time order pattern of organization.
5.R.CI.4	Lesson 4: Classification, Description, and Listing of Examples	<ul style="list-style-type: none">• Differentiate between the classification, description, and listing of examples pattern of organization.

Unit 5: Purpose and Tone		
5.R.CI.6 6.R.CI.7	Lesson 1: Purpose and Tone	<ul style="list-style-type: none">● Recognize an author's purpose for writing.● Define connotations.
6.R.CI.6 6.R.CI.9	Lesson 2: Informative Reading	<ul style="list-style-type: none">● Determine a variety of informative reading strategies.● Create strategies for using graphic organizers in reading.
5.R.CL.8	Lesson 3: Reading for Pleasure	<ul style="list-style-type: none">● Recognize elements of fictional writing.● Identify reading strategies for fictional texts.

Unit 6: Graphics and Electronic Texts		
4.RH.12	Lesson 1: Reading Graphics with Understanding	<ul style="list-style-type: none">• Determine the function of graphics:• Identify the different types of graphics.• Establish techniques for reading graphics.
5.R.FW.2.E	Lesson 2: Reading Electronic Texts	<ul style="list-style-type: none">• Complete an effective Internet Search.• Evaluate websites for reliability.

WRITING

The following aligns the Illinois ABE/ASE Language Arts Content Standards with the Writing Unit integrated into the Reasoning Through Language Arts Module in i-Pathways.

- **NRS Level 5 – Low Adult Secondary Education (Grade Level 9.0 – 10.9)**

Illinois Standard	i-Pathways Unit Lesson	Lesson Objectives
Unit 7: The Writing Process		
4.W.PD.1	Lesson 1: Paragraph and Sentences	<ul style="list-style-type: none"> • Determine the purpose of a written response. • Organize paragraphs. • Create an essay.
5.W.TT.1 5.W.PD.2	Lesson 2: Patterns of Organization	<ul style="list-style-type: none"> • Organize information when writing. • Identify the appropriate pattern of development for the written response to a prompt.
5.W.TT.2	Lesson 3: The Writing Process	<ul style="list-style-type: none"> • Define different types of essays. • Write a strong thesis statement. • Organize an essay. • Determine to role of audience.
4.W.RB.2	Lesson 4: Introduction to Referencing Materials	<ul style="list-style-type: none"> • Define plagiarism. • Understand how to correctly cite information.

SCIENCE

The following aligns the Illinois ABE/ASE Language Arts Content Standards: Reading Through the Content Areas with the Science Module in i-Pathways.

- **NRS Level 5 – Low Adult Secondary Education (Grade Level 9.0 – 10.9)**
- **NRS Level 6 – High Adult Secondary Education (Grade Level 11.0 – 12.9)**

Illinois Standard	i-Pathways Unit Lesson	Lesson Objectives
Unit 1: Life Science		
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 1: The Human Body	<ul style="list-style-type: none"> ● Understand how systems of the body work together. ● Identify the basics of health and fitness. ● Identify diseases that impact various systems of the body.
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 2: The Cell	<ul style="list-style-type: none"> ● Identify cell structures and functions. ● Understand the difference between plant and animal cells. ● Recognize how cells divide. ● Understand the process of photosynthesis. ● Understand how cells make use of energy to carry out their functions. ● Understand how cells differentiate and organize themselves into complex organisms.
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 3: Molecular Basis of Heredity	<ul style="list-style-type: none"> ● Predict the outcome of a genetic cross. ● Differentiate patterns of inheritance. ● Identify the structure of the DNA molecule. ● Understand how DNA replicates itself. ● Understand how genes express themselves.

5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 4: Understanding Evolution	<ul style="list-style-type: none">● Identify the key points of Darwin's theory of evolution.● Identify how natural selection operates.● Define punctuated equilibrium.● Evaluate evidence of evolution.
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 5: Form and Function	<ul style="list-style-type: none">● Understand the relationship between form and function.● Evaluate the influences of form and function.● Identify how form and function impact evolution.
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 6: Interdependence of Organisms	<ul style="list-style-type: none">● Define an ecosystem.● Identify energy flow from organisms into ecosystems.● Evaluate a food web.● Identify the relationships between organisms in an ecosystem.

Unit 2: Scientific Methods and Technology		
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 1: Science as Inquiry	<ul style="list-style-type: none">• Identify the scientific method.
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 2: Science and Technology	<ul style="list-style-type: none">• Identify science as inquiry as it applies to DNA.

Unit 3: Physical Science		
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 1: Structure and Properties of Matter	<ul style="list-style-type: none"> Identify the structures and properties of matter. Define the parts of an atom. Define chemical bonds. Identify the difference between chemical and physical changes.
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 2: Chemical Reactions	<ul style="list-style-type: none"> Identify the process and properties of chemical reactions. Solve chemical equations. Define systems in equilibrium. Understand the forces that change the speed of a reaction.
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 3: Motion and Forces	<ul style="list-style-type: none"> Identify Newton's Laws of Motion. Evaluate how the Law of Gravity fits with the Laws of Motion.
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 4: Systems, Order and Organization	<ul style="list-style-type: none"> Identify the systems in the natural and designed world. Identify order in the natural and designed world. Classify organization in the natural and designed world.
5.R.RS.2 5.R.RS.4 5.R.RS.5 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 5: Interactions of Energy and Matter	<ul style="list-style-type: none"> Differentiate between potential and kinetic energy. Explore the relationship between waves, energy, and matter. Compare and contrast the advantages and disadvantages of energy sources.

Unit 4: Earth and Space Science		
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 1: Energy in the Earth System	<ul style="list-style-type: none"> Identify the parts of the Earth. Define energy sources on the Earth.
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 2: Evolution of the Earth System	<ul style="list-style-type: none"> Understand the theory of continental drift. Identify causes of earthquakes.
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 3: Origin and Evolution of the Universe	<ul style="list-style-type: none"> Evaluate the Big Bang Theory. Identify the theory of evolution.
5.R.RS.2 5.R.RS.4 5.R.RS.13 5.R.FW.2b 6.R.RS.4	Lesson 4: Preservation of the Earth and its Resources	<ul style="list-style-type: none"> Identify the impact of human advancement on the environment. Explore strategies to preserve the environment.

SOCIAL STUDIES

The following aligns the Illinois ABE/ASE Language Arts Content Standards as they relate to History and Social Studies with the Social Studies Module in i-Pathways.

- **NRS Level 5 – Low Adult Secondary Education (Grade Level 9.0 – 10.9)**
- **NRS Level 6 – High Adult Secondary Education (Grade Level 11.0 – 12.9)**

Illinois Standard	i-Pathways Unit Lesson	Lesson Objectives
Unit 1: Civics and Government		
5.R.RH.2 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 1: Modern and Historical Governments	<ul style="list-style-type: none"> • Differentiate between government systems in the world. • Compare and contrast political ideals.
5.R.RH.2 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 2: American Constitutional Democracy	<ul style="list-style-type: none"> • Define the key principles that shaped the American Constitutional Democracy. • Understand how the American government was created.
5.R.RH.2 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 3: Structure and Design of United States Government	<ul style="list-style-type: none"> • Identify how the federal, state, and local government functions. • Explain the structure of the United States Government.
5.R.RH.2 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 4: Political Parties, Campaigns, Elections, Electoral Process, and Contemporary Public Policy	<ul style="list-style-type: none"> • Compare and contrast the political parties in the United States. • Identify the role of special interest groups and lobbyists in contemporary public policy.

Unit 2: United States History		
5.R.RH.2 5.R.RH.3 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 1: Revolutionary and Early Republic Periods	<ul style="list-style-type: none"> ● Evaluate the impact of American colonization. ● Identify historical figures of Colonial America. ● Evaluate the cause and effect of the American Revolution.
5.R.RH.2 5.R.RH.3 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 2: Civil War and Reconstruction	<ul style="list-style-type: none"> ● Identify the events leading to the American Civil War. ● Identify the historical figures of the American Civil War. ● Evaluate the impact of the American Civil War.
5.R.RH.2 5.R.RH.3 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 3: Civil Rights	<ul style="list-style-type: none"> ● Identify the impact of Jim Crow laws. ● Evaluate the Supreme Court rulings that impacted the Civil Rights movement. ● Identify the role of women's rights in the Civil Rights movement.
5.R.RH.2 5.R.RH.3 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 4: European Settlement and Population of the Americas	<ul style="list-style-type: none"> ● Define the alliance system. ● Identify the key world leaders in the early 1900s. ● Understand the cause and effects of WWI and WWII.
5.R.RH.2 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 5: The Cold War and Foreign Policy Since 9/11	<ul style="list-style-type: none"> ● Identify the Cold War and define its significance. ● Define the domestic and foreign policies after September 11, 2011.

Unit 3: Economics		
5.R.RH.2 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 1: Fundamental Economic Concepts	<ul style="list-style-type: none"> Evaluate the relationship between supply and demand. Identify the elements of a free enterprise economy.
5.R.RH.2 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 2: Microeconomics and Macroeconomics	<ul style="list-style-type: none"> Identify the causes of inflation. Explain the impact of government policy on inflation of goods and services. Define gross domestic product.
5.R.RH.2 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 3: Key Economic Events Shaping American Government and Policies	<ul style="list-style-type: none"> Identify the impact of Westward Expansion in the American economy. Evaluate the economic causes and impacts of war. Evaluate the impact of the Industrial Revolution on the economy and the working class.
5.R.RH.2 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 4: Consumer Education	<ul style="list-style-type: none"> Define credit. Develop strategies for saving money. Identify strategies for personal banking.

Unit 4: Geography and the World		
5.R.RH.2 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 1: Development of Classical Civilizations	<ul style="list-style-type: none">• Identify past empires.• Evaluate how past empires and societies impacted modern government.
5.R.RH.2 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 2: Relationship Between the Environment and Societal Development	<ul style="list-style-type: none">• Understand the impact of population growth on the environment.
5.R.RH.2 5.R.RH.4 5.R.RH.12 6.R.RH.13	Lesson 3: Borders between People and Nations	<ul style="list-style-type: none">• Evaluate maps for geographical or political information.

MATHEMATICS

The following aligns the Illinois ABE/ASE Mathematics Standards with the Mathematics module in i-Pathways.

- **NRS Level 4 – High Intermediate Basic Education (Grade Level 6.0 - 8.9)**
- **NRS Level 5 – Low Adult Secondary Education (Grade Level 9.0 – 10.9)**
- **NRS Level 6 – High Adult Secondary Education (Grade Level 11.0 – 12.9)**

Illinois Standard	i-Pathways Unit Lesson	Lesson Objectives
Unit 1: Introduction to Real Numbers		
4.NS.5	Lesson 1: Integers	<ul style="list-style-type: none">● Identify integers on a number line.● Compare integers.
4.NS.9	Lesson 2: Additions with Integers	<ul style="list-style-type: none">● Add signed numbers.
4.NS.9	Lesson 3: Subtraction with Integers	<ul style="list-style-type: none">● Subtract signed numbers.
4.NS.10	Lesson 4: Adding and Subtracting Signed Numbers	<ul style="list-style-type: none">● Solve word problems with signed numbers.
4.NS.10	Lesson 5: Multiplication, Division and Order of Operations with Rational Numbers	<ul style="list-style-type: none">● Apply order of operations with rational numbers.

Unit 2: Introduction to Algebra		
4.EE.1 – 12 5.A.SSE.1	Lesson 1: Variables and Algebraic Expressions	<ul style="list-style-type: none"> Identify variables in English phrases. Write algebraic expressions using signed numbers, integers, and variables Interpret algebraic expressions.
4.EE.3	Lesson 2: Combining Like Terms and Simplifying	<ul style="list-style-type: none"> Combine like terms in algebraic expressions. Simplify expressions using the distributive property.
4.EE.5	Lesson 3: Solving Algebraic Equations Using the Addition Principle	<ul style="list-style-type: none"> Solve equation problems using the addition principle. Solve equation problems using the subtraction principle.
4.EE.5	Lesson 4: Solving Algebraic Equations Using the Multiplication Principle	<ul style="list-style-type: none"> Solve equations using the multiplication principle. Solve equations using the division principle.
4.EE.5	Lesson 5: Solving Algebraic Equations Using the Multiplication and Additions Principles	<ul style="list-style-type: none"> Solve equations for the unknown variable using multiple mathematical operations
4.EE.5	Lesson 6: Solving Algebraic Equations with Fractions and Decimals	<ul style="list-style-type: none"> Solve equations containing fractions. Solve equations containing decimals.
4.EE.6 4.EE.7	Lesson 7: Translating and Word Problems	<ul style="list-style-type: none"> Identify trigger words used in mathematical operations. Translate word problems into algebraic equations. Solve problems use principles of multiplication, division, addition, and subtraction.
4.EE.9	Lesson 8: Solving Linear Equations Requiring Simplification of Either or Both Sides	<ul style="list-style-type: none"> Combine like terms. Solve equations which require simplifications. Clear equations of fractions and decimals.
4.EE.12	Lesson 9: Solving Linear Equations with Variable on Both Sides	<ul style="list-style-type: none"> Solve equations with variables on both sides.

4.EE.12	Lesson 10: Solving Literal Equations	<ul style="list-style-type: none">• Solve literal equations for a specified variable.
4.EE.12	Lesson 11: Use Linear Equations to Solve Word Problems	<ul style="list-style-type: none">• Apply strategies to solving word problems involving linear equations.

Unit 3: Introduction to Geometry		
4.G.9	Lesson 1: Points, Lines, Planes, and Angles	<ul style="list-style-type: none">● Identify the difference between lines, planes and angles.● Measure angles in diagrams.● Identify complementary and supplementary angles.
4.G.9 4.G.17	Lesson 2: Classifying Triangles and the Pythagorean Theorem	<ul style="list-style-type: none">● Classify triangles.● Solve problems involving measurement of angles in a triangle,● Solve problems involving the Pythagorean Theorem.
4.G.1	Lesson 3: Classifying Quadrilaterals	<ul style="list-style-type: none">● Classify quadrilaterals.● Determine the relationship between quadrilaterals.
4.G.8	Lesson 4: Circles	<ul style="list-style-type: none">● Identify the basic parts of a circle.● Identify the circumference and area of a circle.
4.G.10	Lesson 5: Area of Polygons Using Formulas	<ul style="list-style-type: none">● Solve for unknown lengths.● Solve for the area of irregular figures.● Find the area of squares, rectangles, parallelograms, and trapezoids.
4.G.10	Lesson 6: Volume	<ul style="list-style-type: none">● Solve for volume of three-dimensional figures.● Solve for a surface area.● Solve for the volume of area using formulas.

Unit 4: Linear Inequalities in One Variable		
4.EE.20	Lesson 1: Set Notation, Interval Notation, and Terminology	<ul style="list-style-type: none">• Identify set-builder and interval notation.• Write solutions sets for equations and inequalities in both set-builder and interval notation.
4.EE.20	Lesson 2: Solve and Graph Single Linear Inequalities	<ul style="list-style-type: none">• Solve linear inequalities in one variable.• Graph linear inequalities in one variable.
4.EE.21	Lesson 3: Solve and Graph Compound Linear Inequalities in One Variable	<ul style="list-style-type: none">• Solve compound linear inequalities in one variable.• Graph solution sets of linear inequalities.• Differentiate between and or compound inequalities.
4.EE.21	Lesson 4: Solve Linear Equations and Inequalities Containing Absolute Value	<ul style="list-style-type: none">• Solve linear inequalities containing absolute value.• Graph solutions to linear inequalities containing absolute value.

Unit 5: Linear Functions		
6.F.IF.2	Lesson 1: Introduction to Graphing	<ul style="list-style-type: none"> Identify the location of a point. Solve an equation by identifying the ordered pair.
6.F.IF.4	Lesson 2: Graphing Linear Functions Using a Table of Values	<ul style="list-style-type: none"> Graphing linear equations using a table of values.
6.F.IF.4	Lesson 3: Graphing Horizontal and Vertical Lines	<ul style="list-style-type: none"> Graph horizontal lines when given its equation. Graph vertical lines when given its equation.
6.F.IF.4	Lesson 4: Graphing Linear Functions Using Intercepts	<ul style="list-style-type: none"> Locate the x and y intercept of a line. Graph lines using the x and y intercept.
6.F.IF.4	Lesson 5: Rate of Change – Understanding Slope in Context	<ul style="list-style-type: none"> Interpret positive, negative, zero, and undefined slope.
6.F.IF.4	Lesson 6: Slope of a Line	<ul style="list-style-type: none"> Identify the slope of a line.
6.F.IF.4	Lesson 7: Equations of Lines (Slope-Intercept and Point-Slope Form)	<ul style="list-style-type: none"> Understand the slope and y-intercept form from its equation. Write an equation of a line given the slope and y-intercept.
6.F.IF.4	Lesson 8: Graphing Linear Functions in Slope-Intercept Form or Point-Slope Form	<ul style="list-style-type: none"> Graph a linear function when given its equation in slope-intercept form. Graph a linear function when given its equation in point-slope form.
6.F.IF.9	Lesson 9: Applications of Linear Functions	<ul style="list-style-type: none"> Solve word problems involving linear equations in two variables.
6.F.IF.4	Lesson 10: Write the Equation of a Line Perpendicular or Parallel to a Given Line	<ul style="list-style-type: none"> Write an equation for parallel lines. Write equations for perpendicular lines.
6.F.IF.4	Lesson 11: Graph Linear Inequalities in Two Variable	<ul style="list-style-type: none"> Graph linear inequalities in two variables.

Unit 6: Polynomials and Factoring		
5.A.APR.1	Lesson 1: Introduction to Polynomials	<ul style="list-style-type: none">Classify polynomials.
5.A.APR.1	Lesson 2: Addition and Subtraction in Polynomials	<ul style="list-style-type: none">Solve addition and subtraction problems containing polynomials.
5.A.APR.1	Lesson 3: Multiplication of Polynomials	<ul style="list-style-type: none">Solve multiplication problems with binomials and polynomials.
5.A.APR.1	Lesson 4: Division of Polynomials	<ul style="list-style-type: none">Solve division problems containing polynomials and monomials.
5.A.APR.1	Lesson 5: Factoring by Greatest Common Factor and Grouping	<ul style="list-style-type: none">Factor polynomials using grouping and the greatest common factor.
5.A.APR.1	Lesson 6: Factoring Differences of Squares	<ul style="list-style-type: none">Factor the difference of squares.
5.A.APR.1	Lesson 7: Factoring Trinomials	<ul style="list-style-type: none">Factor trinomials.
5.A.SSE.2	Lesson 8: Factoring Sum and Difference of Cubes	<ul style="list-style-type: none">Factor the sum of cubes.Factor the difference of cubes.
5.A.REI.3	Lesson 9: Solving Equations by Factoring	<ul style="list-style-type: none">Solve equations by factoring.
5.A.REI.3	Lesson 10: Applications: Word Problems	<ul style="list-style-type: none">Solve word problems involving factoring.
5.A.REI.3	Lesson 11: Quadratic Equations	<ul style="list-style-type: none">Solve equations in quadratic form.

Unit 7: Rational Expressions		
6.A.APR.6	Lesson 1: Simplifying Rational Expressions and Determining Excluded Values	<ul style="list-style-type: none">• Simplify rational values expressions.
6.A.REI.1	Lesson 2: Addition and Subtraction of Rational Expressions	<ul style="list-style-type: none">• Multiply and Divide rational expressions.
6.A.REI.1	Lesson 3: Multiplication and Division of Rational Expressions	<ul style="list-style-type: none">• Add and subtract rational expressions.
6.A.REI.1	Lesson 4: Solve Equations with Rational Expressions	<ul style="list-style-type: none">• Simplify complex rational expressions.
6.A.REI.1	Lesson 5: Perform Operations with Complex Fractions	<ul style="list-style-type: none">• Solve equations involving rational expressions with fractions.
6.A.REI.5	Lesson 6: Applications: Word Problems	<ul style="list-style-type: none">• Solve word problems involving rational expressions.

BASIC MATHEMATICS

The following aligns the Illinois ABE/ASE Mathematics Standards in the Basic Mathematics Module in i-Pathways.

- **NRS Level 3 – Low Intermediate Basic Education (Grade Level 9.0 – 10.9)**
- **NRS Level 4 – High Intermediate Basic Education (Grade Level 6.0 – 8.9)**

Illinois Standard	i-Pathways Unit Lesson	Lesson Objectives
Unit 1: Number Sense		
3.NBT.3	Lesson 1: Place, Value, Rounding, and Estimating	<ul style="list-style-type: none"> ● Identify place value of a digit in a number. ● Round numbers to a given place value. ● Estimate numbers.
3.NBT.4	Lesson 2: Addition, Subtraction, Multiplication and Division	<ul style="list-style-type: none"> ● Add, subtract, multiply and divide whole numbers.
3.NBT.4	Lesson 3: Mean, Median, Mode	<ul style="list-style-type: none"> ● Define mean, median, and mode. ● Solve math problems involving mean, median, mode, and range.
4.EE.14	Lesson 4: Exponents	<ul style="list-style-type: none"> ● Identify exponents or powers. ● Simplify powers of 0 and 1. ● Use exponents with geometry.
4.NS.10	Lesson 5: Order of Operations	<ul style="list-style-type: none"> ● Apply the rules of order of operations to simplify mathematical expressions.
3.OA.4	Lesson 6: Prime Numbers	<ul style="list-style-type: none"> ● Identify prime and composite numbers. ● Identify at least two pairs of factors of composite numbers. ● Find pairs of factors that add to give a given number.

3.OA.4	Lesson 7: Prime Factorization	<ul style="list-style-type: none">● Identify when a number is written as a product of primes?● Understand the Fundamental Theorem of Arithmetic?● Find the prime factorization for any counting number.
3.NF.8	Lesson 8: Least Common Multiples	<ul style="list-style-type: none">● Identify the least common multiple mean.● Find the least common multiple for a group of two or three numbers.● Understand what prime numbers have to do with least common multiples
3.NF.9	Lesson 9: Problem Solving	<ul style="list-style-type: none">● Use strategies to solve word problems.● Determine key words in word problems.

Unit 2: Prime Numbers and Least Common Multiples		
3.NF.1	Lesson 1: Fractions	<ul style="list-style-type: none">• Understand fractions.• Identify equivalent fractions.• Simplify or expand fractions.
4.NS.1	Lesson 2: Multiplication with Fractions	<ul style="list-style-type: none">• Multiply fractions.
4.NS.1	Lesson 3: Division with Fractions	<ul style="list-style-type: none">• Divide Fractions.
3.NF.8	Lesson 4: Addition with Fractions	<ul style="list-style-type: none">• Determine the least common denominator (LCD).• Add fractions.
3.NF.8	Lesson 5: Subtraction with Fractions	<ul style="list-style-type: none">• Subtract fractions.
3.NF.4	Lesson 6: Mixed Numbers	<ul style="list-style-type: none">• Use mixed numbers to represent figures and real-life data.• Write mixed numbers as improper fractions.• Write improper fractions as mixed numbers.
3.NF.4	Lesson 7: Multiply and Divide with Mixed Numbers	<ul style="list-style-type: none">• Multiply mixed numbers.• Divide mixed numbers.
3.NF.3	Lesson 8: Adding Mixed Numbers	<ul style="list-style-type: none">• Add mixed numbers.
3.NF.3	Lesson 9: Subtracting with Mixed Numbers	<ul style="list-style-type: none">• Subtract mixed numbers.

Unit 3: Decimals		
3.NBT.8	Lesson 1: Decimal Numbers	<ul style="list-style-type: none">• Read decimal numbers written as numerals.• Write numerals that contain decimals and are expressed as words.• Identify the value of a digit in a number.• Round decimals to an indicated place of accuracy.
3.NBT.14	Lesson 2: Addition and Subtraction with Decimal Numbers	<ul style="list-style-type: none">• Add with decimal numbers.• Subtract with decimal numbers.
4.NS.3	Lesson 3: Multiplication and Division with Decimal Numbers	<ul style="list-style-type: none">• Multiply with decimal numbers.• Divide with decimal numbers.
4.RP.3	Lesson 4: Decimals, Fractions, and Percents	<ul style="list-style-type: none">• Convert fractions to decimals.• Convert decimals to fractions.• Convert decimals to percents.
4.G.17	Lesson 5: Square Roots and Pythagorean Theorem	<ul style="list-style-type: none">• Apply the Pythagorean Relationship/Theorem.• Find the Square root of a number.

Unit 4: Ratios and Proportions		
4.RP.1 4.RP.2	Lesson 1: Ratio and Price per Unit	<ul style="list-style-type: none">• Understand ratios.• Write a ratio using several notations.• Calculate price per unit, miles per gallon and miles per hour.
4.RP.5	Lesson 2: Ratios and Proportions	<ul style="list-style-type: none">• Identify a proportion.• Determine if a statement is a true proportion.
4.RP.5	Lesson 3: Finding the Unknown Term in a Proportion	<ul style="list-style-type: none">• Find the unknown number in a proportion.
4.RP.6	Lesson 4: Problem Solving with Proportions	<ul style="list-style-type: none">• Set up a proportion correctly given a situation with one unknown term.• Use a chart to help set up proportions.
4.RP.3	Lesson 5: Similar Triangles and Similar Figures	<ul style="list-style-type: none">• Find unknown lengths of sides for pairs of similar figures using proportions.

Unit 5: Percents		
4.RP.6	Lesson 1: Decimals and Percents	<ul style="list-style-type: none">● Determine the meaning of percent.● Change a decimal to a percent.● Change a percent to a decimal.
4.RP.5	Lesson 2: Fractions and Percents	<ul style="list-style-type: none">● Change fractions, mixed numbers, and improper fractions into percents.● Change percents to fractions and mixed numbers.
4.RP.6	Lesson 3: Applications with Percents	<ul style="list-style-type: none">● Identify types of numbers found in percent problems.● Write simple percent statements.● Use two formulas to solve percent problems.● Translate real life problems to simple percent statements.● Solve percent word problems.
4.RP.5	Lesson 4: Simple and Compound Interest	<ul style="list-style-type: none">● Apply concepts of simple and compound interest to real world problems.
4.RP.6	Lesson 5: Percent of Increase and Percent of Decrease	<ul style="list-style-type: none">● Solve problems involving percent of increase.● Solve problems involving percent of decrease.

BASIC WRITING

The following aligns the Illinois ABE/ASE Writing and Language Arts Standards with the Basic Writing Module in i-Pathways.

- **NRS Level 4 – High Intermediate Basic Education (Grade Level 6.0 – 8.9)**
- **NRS Level 5 – Low Adult Secondary Education (Grade Level 9.0 – 10.9)**

Illinois Standard	i-Pathways Unit Lesson	Lesson Objectives
Unit 1: Sentence Structure/Mechanics		
4.W.CS 1 & 2 5.W.CS 2 & 2	Lesson 1: Identifying and Using Parts of Speech	<ul style="list-style-type: none"> ● Correctly identify each of the eight parts of speech. ● Correctly use each of the parts of speech in sentences.
4.W.CS.2	Lesson 2: Understanding Sentence Structure	<ul style="list-style-type: none"> ● Use periods correctly (.). ● Use question marks correctly (?). ● Use exclamation points correctly. (!). ● Use colons correctly (:). ● Use italics correctly (<i>italics</i>). ● Use quotation marks correctly (“ ”).
4.W.CS.1	Lesson 3: Combining Sentences	<ul style="list-style-type: none"> ● Identify simple sentences, compound sentences, and complex sentences. ● Identify and correct sentence errors, such as run-ons and fragments. ● Connect sentences or parts of sentences with coordinating conjunctions, semicolons, and subordinating conjunctions.
4.W.KL.1	Lesson 4: Errors in Grammar	<ul style="list-style-type: none"> ● Identify basic grammatical errors in Standard English. ● Practice identifying grammatical errors in writing.

Unit 2: Introduction to the Writing Process		
4.W.WL.3	Lesson 1: Introduction to the Writing Process	<ul style="list-style-type: none"> ● Gather ideas to write about. ● Analyze to decide on the topic, purpose, and audience. ● Write a first draft. ● Revise your draft. ● Edit your writing.
4.W.WL.3	Lesson 2: Sentences and Paragraphs	<ul style="list-style-type: none"> ● Identify the parts of a paragraph. ● Write good topic sentences. ● Identify major and minor details. ● Define order, unity, and coherence.
4.W.WL.3	Lesson 3: Patterns of Development Part I	<ul style="list-style-type: none"> ● Write five types of paragraphs. ● Understand purpose, characteristics, and pattern of organization.
4.W.TT.2 4.W.TT.3	Lesson 4: Patterns of Development Part II	<ul style="list-style-type: none"> ● Write paragraphs according to patterns of development. ● Compare and contrast developed paragraphs. ● Understand how classification paragraphs are developed. ● Understand how cause and effect paragraphs are developed. ● Understand how persuasive paragraphs are developed.

Unit 3: Effective Sentences		
4.W.TT.1	Lesson 1: Word Choice	<ul style="list-style-type: none">● Use concrete and vivid words.● Write concisely.● Avoid redundancy.● Avoid clichés.● Use apostrophes correctly.● Choose the right spelling of words.
4.W.KL.1	Lesson 2: Sentence Variety	<ul style="list-style-type: none">● Place emphasis on the major ideas of a sentence.● Differentiate between coordination and subordination.● Use variations of sentence structure.● Use and punctuate transitional elements in a paragraph.
4.W.KL.1	Lesson 3: Sentence Clarity	<ul style="list-style-type: none">● Identify and correct misplaced modifiers.● Identify and correct dangling modifiers.● Use parallel structure.● Identify and correct mixed construction.
5.W.PD.1	Lesson 4: Revising and Editing	<ul style="list-style-type: none">● Revise and rewrite an essay to strengthen its content, organization, and wording.● Edit an essay applying the standards of correct grammar and mechanics.

Unit 4: Introduction to Referencing Materials		
4.W.RB.2	Lesson 1: Gathering Information and Citing Resources	<ul style="list-style-type: none">• The types of sources used in research.• How to determine if a source is credible.• The purpose of a Works Cited Page.
5.W.TT.1	Lesson 2: Summarizing, Paraphrasing, and Quoting Directly from Outside Source	<ul style="list-style-type: none">• Avoid Plagiarism.• Summarize from an outside source.• Paraphrase from an outside source.• Quote directly from an outside source.• Use in-text citation.

Unit 5: Essay Writing		
5.W.PD.1	Lesson 1: The Writing Process	<ul style="list-style-type: none">● Prepare to write.● Organize an essay.● Consider audience while writing.● Draft, revise, and edit an essay.
5.W.TT.2	Lesson 2: Essay Development	<ul style="list-style-type: none">● Write thesis statements.● Write an introduction and conclusion.● Write body paragraphs with topic sentences, support, and transitions.
5.W.TT.2	Lesson 3: Writing Strategies	<ul style="list-style-type: none">● To define and write a narrative essay.● To define and write an expository essay.● To define and write a persuasive essay.● The difference between first person and third person narration.

READING IN THE CONTENT AREAS

The following aligns the Illinois ABE/ASE Content Standards for the Social Studies, Science, and Math Module in i-Pathways.

- **NRS Level 3 – Low Intermediate Basic Education (Grade Level 9.0 – 10.9)**
- **NRS Level 4 – High Intermediate Basic Education (Grade Level 6.0 – 8.9)**

Illinois Standard	i-Pathways Unit Lesson	Lesson Objectives
Unit 1: Social Studies		
3.R.CI.1 3.R.CI.2 3.R.CI.3 3.R.CI.4 3.R.CI.5 3.R.CI.6 3.R.CI.7	Lesson 1: Introduction	<ul style="list-style-type: none"> ● Why did the author write the text? ● What is the main idea? ● What text structure(s) are used to help with understanding? ● How do the visuals enhance what is written? ● What conclusions can be drawn from what has been read?
3.R.VA.1 3.R.VA.2 3.R.VA.3.2.1 3.R.VA.3.2.2 3.R.VA.3.2.3	Lesson 2: Vocabulary Development	<ul style="list-style-type: none"> ● Apply and understand context clues. ● Identify affixes. ● Use a dictionary to understand the meaning of words. ● Use a thesaurus to understand both similar and opposite word meanings. ● Identify and use figurative language.
3.R.C.3.3.10 3.R.C.3.3.11 3.R.C.3.3.12 3.R.C.3.3.13	Lesson 3: Informational Text	<ul style="list-style-type: none"> ● Identify a main idea. ● Identify text structure. ● Answer the who, what, when, why, where, and how. ● Identify primary and secondary text. ● Use pre- and post-reading strategies. ● Draw conclusions and make inferences.

3.R.CI.1 3.R.CI.2 3.R.CI.3 3.R.CI.4 3.R.CI.5 3.R.CI.6 3.R.CI.7	Lesson 4: Narrative Text	<ul style="list-style-type: none">● Identify types of narrative styles or genres.● Use a plot diagram to map a plot of a story.● Identify a point of view.● Make inferences and draw conclusions.
3.R.C.3.3.10 3.R.C.3.3.11 3.R.C.3.3.12	Lesson 5: Understanding Images	<ul style="list-style-type: none">● Editorial or Political Cartoons● Graphs● Charts and Tables● Maps
3.R.CI.1 3.R.CI.2 3.R.CI.3 3.R.CI.4 3.R.CI.5 3.R.CI.6 3.R.CI.7 3.R.FWS.3.5.1	Lesson 6: Real World Application	<ul style="list-style-type: none">● Interpret texts you encounter in daily life.● Apply reading strategies to understand informational and narrative text.● Apply reading strategies to understand text with and without graphics.

Unit 2: Science		
3.R.VA.1	Lesson 1: Introduction	<ul style="list-style-type: none"> • Conduct pre-reading strategies. • Identify important vocabulary words. • Locate the main idea. • Begin to draw inferences. • Summarize the key points of scientific.
3.R.VA.2	Lesson 2: Vocabulary Development	<ul style="list-style-type: none"> • Know the parts of a word. • Identify terms and their meanings. • Use outside sources to aid comprehension. • Understand how words are assembled to expand their meaning. • Find context clues. • Locate antonyms, synonyms, examples, appositives, and analogies.
3.R.FL.5 3.R.C.3.3.10	Lesson 3: Using Graphic Organizers to Understand Science Texts	<ul style="list-style-type: none"> • Identify the details of each type of graphic organizer. • Know how to determine which type of graphic organizer is best to use. • Understand the form of graphic organizer that best helps them understand new concepts.
3.R.C.3.3.10 3.R.C.3.3.11 3.R.C.3.3.12 3.R.C.3.3.13	Lesson 4: Understanding Ideas	<ul style="list-style-type: none"> • Understand the parts that make up informational texts. • Tell the difference between a topic and a main idea. • Pinpoint key details, major details, and minor details. • Locate transitions and use them to understand a subject shift. • Identify inferences and understand how they work. • Put all the pieces of the text together in a way that improves comprehension.
3.R.CI.1 3.R.CI.2 3.R.CI.3 3.R.CI.4 3.R.CI.5 3.R.CI.6 3.R.CI.7 3.R.FWS.3.5.1	Lesson 5: Real World Application	<ul style="list-style-type: none"> • Apply pre-reading strategies to real world texts. • Identify and learn new vocabulary in real world texts. • Use graphic organizers to help understand and remember information from real world texts.

Unit 3: Math		
3.R.C.3.3.10 3.R.C.3.3.11 3.R.C.3.3.12	Lesson 1: Introduction	<ul style="list-style-type: none"> ● Identify the key terms needed to solve a problem. ● Recognize word problems in real life. ● Know how to read the problem and identify its parts. ● Determine which function will be needed to solve. ● Visualize the problem. ● Know whether a graphic organizer would help, which one and why ● How to “think aloud”.
3.R.VA.3.2.1 3.R.C.3.3.1	Lesson 2: Vocabulary Development	<ul style="list-style-type: none"> ● Identify math context clues. ● Fully understand key math terms. ● Pinpoint the important numbers in a word problem. ● Set up correct math operations from word problems.
3.R.FL.5 3.R.C.3.3.10	Lesson 3: Graphic Organizers	<ul style="list-style-type: none"> ● Recognize the first step when encountering a word problem. ● Identify different graphic organizers and their functions. ● See patterns and connections in the problem. ● Classify information in a way that helps solve the problem.
3.R.C.3.3.1 3.R.C.3.3.2 3.R.C.3.3.7 3.R.C.3.3.8 3.R.C.3.3.10 3.R.C.3.3.11 3.R.C.3.3.12 3.R.C.3.3.13	Lesson 4: Think Aloud	<ul style="list-style-type: none"> ● Pose questions . ● Recall prior knowledge. ● Visualize the problem. ● Plan towards a solution. ● Estimate or approximate what the answer might be. ● Respond completely to answer the question.

3.R.C.3.3.1 3.R.C.3.3.2 3.R.C.3.3.7 3.R.C.3.3.8 3.R.C.3.3.10 3.R.C.3.3.11 3.R.C.3.3.12 3.R.C.3.3.13 3.R.FWS.3.5.1	Lesson 5: Apply Your Knowledge	<ul style="list-style-type: none">● Look for and define key terms.● Identify context.● Use graphic organizers to help solve problems.● Use the “think aloud” process effectively.
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