

Understanding and Applying the TABE 11&12 Overlay

An Add-On to the ABE Math Curriculum Matrix



Activity Book

Institute for the Professional Development of Adult Educators

WEBINAR ACTIVITY BOOK

Understanding and Applying the TABE 11&12 Overlay

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Agenda

- I. Instructional Challenges with TABE 11 & 12
- II. What's Out There?
- III. The TABE 11 & 12 Overlay
- IV. Features of the TABE 11 & 12 Overlay
- V. Applications of the TABE 11 & 12 Overlay
- VI. How to Download and Print
- VII. Exciting Add-Ons in Development
- VIII. Q&A
- IX. Evaluation

Reflection

1. What are the instructional challenges you face with the implementation of TABE 11& 12 Assessment in the following areas?

a. Testing Requirements

b. Testing Format and Content

c. Curriculum

d. Instructional Tools

e. Interpreting Scores

f. Instructional Resources

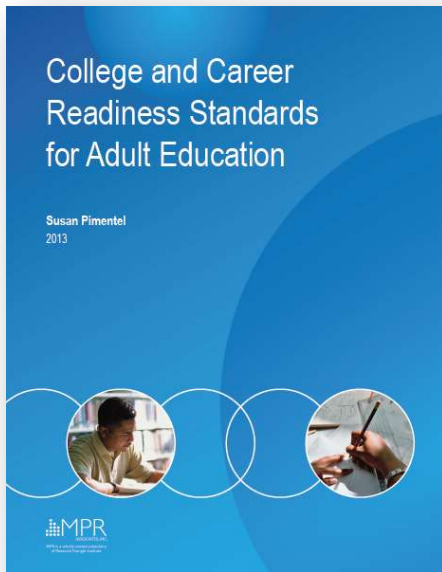
g. Lesson Planning

h. Pacing

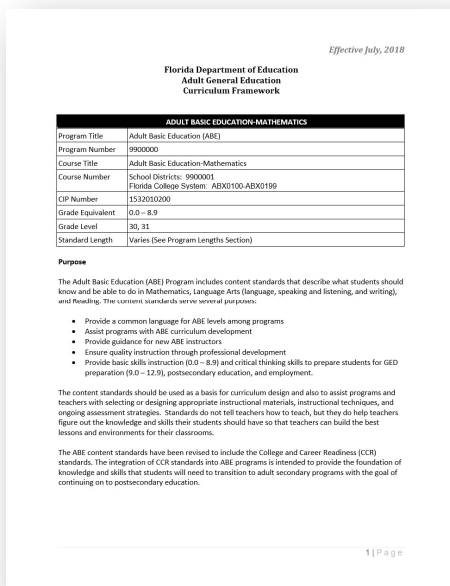
i. Professional Growth

What's Out There?

The College and Career Readiness Standards for Adult Education



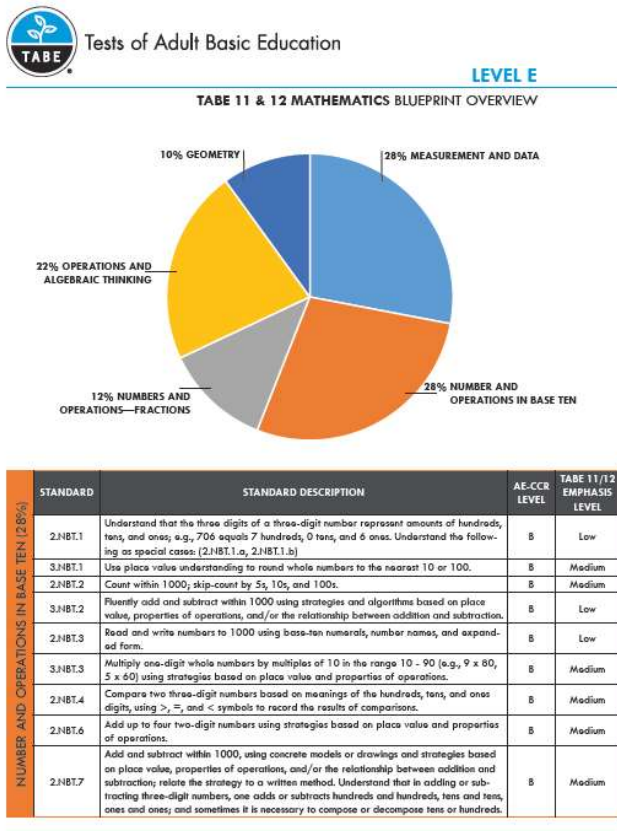
The Curriculum Framework for ABE Mathematics



The ABE Mathematics Curriculum Matrix

Domain	NRS Level 1	NRS Level 2	NRS Level 3	NRS Level 4
1. Number and Operations: Base Ten	Read, write, and represent numbers to 100,000 using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the hundreds, tens, and ones places, and recognize that comparing two multi-digit numbers based on the hundreds place is more meaningful than comparing based on the tens place. Round whole numbers to the nearest ten, hundred, thousand, or ten thousand.	Read, write, and represent numbers to 100,000 using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the hundreds, tens, and ones places, and recognize that comparing two multi-digit numbers based on the hundreds place is more meaningful than comparing based on the tens place. Round whole numbers to the nearest ten, hundred, thousand, or ten thousand.	Read, write, and represent numbers to 100,000 using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the hundreds, tens, and ones places, and recognize that comparing two multi-digit numbers based on the hundreds place is more meaningful than comparing based on the tens place. Round whole numbers to the nearest ten, hundred, thousand, or ten thousand.	Read, write, and represent numbers to 100,000 using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the hundreds, tens, and ones places, and recognize that comparing two multi-digit numbers based on the hundreds place is more meaningful than comparing based on the tens place. Round whole numbers to the nearest ten, hundred, thousand, or ten thousand.
2. Operations and Algebraic Thinking	Use addition, subtraction, multiplication, and division to solve word problems involving unknowns in all positions. Use the four operations with whole numbers to solve problems. Understand addition, subtraction, multiplication, and division as inverse operations. Use properties of operations to add and subtract. Identify patterns in a number sequence and extend them to a given number.	Use addition, subtraction, multiplication, and division to solve word problems involving unknowns in all positions. Use the four operations with whole numbers to solve problems. Understand addition, subtraction, multiplication, and division as inverse operations. Use properties of operations to add and subtract. Identify patterns in a number sequence and extend them to a given number.	Use addition, subtraction, multiplication, and division to solve word problems involving unknowns in all positions. Use the four operations with whole numbers to solve problems. Understand addition, subtraction, multiplication, and division as inverse operations. Use properties of operations to add and subtract. Identify patterns in a number sequence and extend them to a given number.	Use addition, subtraction, multiplication, and division to solve word problems involving unknowns in all positions. Use the four operations with whole numbers to solve problems. Understand addition, subtraction, multiplication, and division as inverse operations. Use properties of operations to add and subtract. Identify patterns in a number sequence and extend them to a given number.
3. Measurement and Data	Measure length, mass, and volume using appropriate units. Measure angles in degrees. Classify two-dimensional shapes by attributes. Represent data on a line plot.	Measure length, mass, and volume using appropriate units. Measure angles in degrees. Classify two-dimensional shapes by attributes. Represent data on a line plot.	Measure length, mass, and volume using appropriate units. Measure angles in degrees. Classify two-dimensional shapes by attributes. Represent data on a line plot.	Measure length, mass, and volume using appropriate units. Measure angles in degrees. Classify two-dimensional shapes by attributes. Represent data on a line plot.
4. Geometry	Classify two-dimensional shapes by attributes. Understand congruence and similarity. Measure area and perimeter.	Classify two-dimensional shapes by attributes. Understand congruence and similarity. Measure area and perimeter.	Classify two-dimensional shapes by attributes. Understand congruence and similarity. Measure area and perimeter.	Classify two-dimensional shapes by attributes. Understand congruence and similarity. Measure area and perimeter.
5. Number and Operations: Fractions	Understand addition and subtraction of fractions. Multiply and divide fractions.	Understand addition and subtraction of fractions. Multiply and divide fractions.	Understand addition and subtraction of fractions. Multiply and divide fractions.	Understand addition and subtraction of fractions. Multiply and divide fractions.
6. Expressions and Equations	Use variables to represent numbers in real-world problems. Write and solve equations and inequalities. Analyze and solve systems of equations and inequalities.	Use variables to represent numbers in real-world problems. Write and solve equations and inequalities. Analyze and solve systems of equations and inequalities.	Use variables to represent numbers in real-world problems. Write and solve equations and inequalities. Analyze and solve systems of equations and inequalities.	Use variables to represent numbers in real-world problems. Write and solve equations and inequalities. Analyze and solve systems of equations and inequalities.
7. The Number System	Use rational numbers to solve problems. Understand the relationship between rational numbers and integers.	Use rational numbers to solve problems. Understand the relationship between rational numbers and integers.	Use rational numbers to solve problems. Understand the relationship between rational numbers and integers.	Use rational numbers to solve problems. Understand the relationship between rational numbers and integers.
8. Ratios and Proportional Relationships	Understand ratios and proportions. Use ratios to solve problems.	Understand ratios and proportions. Use ratios to solve problems.	Understand ratios and proportions. Use ratios to solve problems.	Understand ratios and proportions. Use ratios to solve problems.
9. Statistics and Probability	Understand data and probability. Use statistics to solve problems.	Understand data and probability. Use statistics to solve problems.	Understand data and probability. Use statistics to solve problems.	Understand data and probability. Use statistics to solve problems.
10. Functions	Understand functions and graphs. Use functions to solve problems.	Understand functions and graphs. Use functions to solve problems.	Understand functions and graphs. Use functions to solve problems.	Understand functions and graphs. Use functions to solve problems.

The TABE Assessment Blueprints



Reflection Questions:

Which ones have you started using for your classroom instruction?

Which ones did you find most useful?

What difficulties have you experienced when using these resources?

Adult Basic Education (Mathematics) Curriculum Matrix

Domain	NRS Level 1	NRS Level 2	NRS Level 3	NRS Level 4
1. Number and Operations: Base Ten	Use Values of 2-Digit Numbers Add and Subtract 2-Digit Numbers	Use Values of 3-Digit Numbers Add and Subtract 3-Digit Numbers	Use Values of 4-Digit Numbers Add and Subtract 4-Digit Numbers	Use Values of 5-Digit Numbers Add and Subtract 5-Digit Numbers
	Use Values of 2-Digit Numbers Add and Subtract 2-Digit Numbers	Use Values of 3-Digit Numbers Add and Subtract 3-Digit Numbers	Use Values of 4-Digit Numbers Add and Subtract 4-Digit Numbers	Use Values of 5-Digit Numbers Add and Subtract 5-Digit Numbers
2. Operations and Algebraic Thinking	Solve Addition and Subtraction Problems within 100	Solve Addition and Subtraction Problems within 100	Solve Addition and Subtraction Problems within 100	Solve Addition and Subtraction Problems within 100
	Solve Addition and Subtraction Problems within 100	Solve Addition and Subtraction Problems within 100	Solve Addition and Subtraction Problems within 100	Solve Addition and Subtraction Problems within 100
3. Measurement and Data	Use Length, Mass, and Capacity to Measure	Use Length, Mass, and Capacity to Measure	Use Length, Mass, and Capacity to Measure	Use Length, Mass, and Capacity to Measure
	Use Length, Mass, and Capacity to Measure	Use Length, Mass, and Capacity to Measure	Use Length, Mass, and Capacity to Measure	Use Length, Mass, and Capacity to Measure
4. Geometry	Classify Shapes by Attributes	Classify Shapes by Attributes	Classify Shapes by Attributes	Classify Shapes by Attributes
	Classify Shapes by Attributes	Classify Shapes by Attributes	Classify Shapes by Attributes	Classify Shapes by Attributes
5. Number and Operations: Fractions	Use Models to Represent Fractions	Use Models to Represent Fractions	Use Models to Represent Fractions	Use Models to Represent Fractions
	Use Models to Represent Fractions	Use Models to Represent Fractions	Use Models to Represent Fractions	Use Models to Represent Fractions
6. Expressions and Equations	Use Variables to Represent Numbers	Use Variables to Represent Numbers	Use Variables to Represent Numbers	Use Variables to Represent Numbers
	Use Variables to Represent Numbers	Use Variables to Represent Numbers	Use Variables to Represent Numbers	Use Variables to Represent Numbers
7. The Number System	Use Operations with Fractions	Use Operations with Fractions	Use Operations with Fractions	Use Operations with Fractions
	Use Operations with Fractions	Use Operations with Fractions	Use Operations with Fractions	Use Operations with Fractions
8. Ratios and Proportional Relationships	Use Ratios to Compare Quantities	Use Ratios to Compare Quantities	Use Ratios to Compare Quantities	Use Ratios to Compare Quantities
	Use Ratios to Compare Quantities	Use Ratios to Compare Quantities	Use Ratios to Compare Quantities	Use Ratios to Compare Quantities
9. Statistics and Probability	Use Data to Make Inferences	Use Data to Make Inferences	Use Data to Make Inferences	Use Data to Make Inferences
	Use Data to Make Inferences	Use Data to Make Inferences	Use Data to Make Inferences	Use Data to Make Inferences
10. Functions	Use Functions to Model Relationships	Use Functions to Model Relationships	Use Functions to Model Relationships	Use Functions to Model Relationships
	Use Functions to Model Relationships	Use Functions to Model Relationships	Use Functions to Model Relationships	Use Functions to Model Relationships

Matching Activity

Instructions:

Match the standard code to each cell of the matrix (Table 1). The first one is already done for you.

TABLE 1

Domain	NRS Level 1		NRS Level 2			
	1. Number and Operations: Base Ten	Place Value of 2-Digit Numbers 2.NBT.1	Add and Subtract 2-Digit Numbers	Place Value of 3-Digit Numbers	Add and Subtract 3-Digit Numbers	Round Whole Numbers to the Nearest Tens or Hundreds
Compare 2-Digit Numbers		Model Addition and Subtraction of 2-Digit Numbers	Compare 3-Digit Numbers	Model Addition and Subtraction of 3-Digit Numbers	Multiply 1-Digit Numbers By 2-Digit Multiples of 10	Mentally Add and Subtract 10 or 100 to 3-Digit Numbers

NUMBER AND OPERATIONS IN BASE TEN (28%)	STANDARD	STANDARD DESCRIPTION	AE-CCR LEVEL	TABE 11/12 EMPHASIS LEVEL
	2.NBT.1	Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. Understand the following as special cases: (2.NBT.1.a, 2.NBT.1.b)	B	Low
	3.NBT.1	Use place value understanding to round whole numbers to the nearest 10 or 100.	B	Medium
	2.NBT.2	Count within 1000; skip-count by 5s, 10s, and 100s.	B	Medium
	3.NBT.2	Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.	B	Low
	2.NBT.3	Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.	B	Low
	3.NBT.3	Multiply one-digit whole numbers by multiples of 10 in the range 10 - 90 (e.g., 9 x 80, 5 x 60) using strategies based on place value and properties of operations.	B	Medium
	2.NBT.4	Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.	B	Medium
	2.NBT.6	Add up to four two-digit numbers using strategies based on place value and properties of operations.	B	Medium
	2.NBT.7	Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.	B	Medium

Go back to table 1 and use different colors of highlighter or crayons to differentiate the standards that are Low and Medium in Emphasis Level.

Reflection Question:

What was the “Aha Moment” for you when completing this matching activity?

Overlays for Each Level of TABE

TABE Level E & L

Adult Basic Education (Mathematics) Curriculum Matrix							
Domain	NRS Level 1	NRS Level 2	NRS Level 3	NRS Level 4			
1. Number and Operations: Base Ten	Place value of 2-digit numbers Add and subtract 2-digit numbers Compare 2-digit numbers	Place value of 3-digit numbers Add and subtract 3-digit numbers Compare 3-digit numbers	Place value of numbers to the nearest tens or hundreds Perform multi-digit arithmetic Compare any multi-digit numbers	Understand understanding of place value Read and write multi-digit numbers in names and numerals Round multi-digit numbers to the nearest ten	Place value to understand decimals Read, write, and compare decimals to thousandths		
2. Operations and Algebraic Thinking	Use addition and subtraction to solve problems Use multiplication and division to solve problems	Use multiplication and division to solve problems Use addition and subtraction to solve problems	Use multiplication and division to solve problems Use addition and subtraction to solve problems	Use multiplication and division to solve problems Use addition and subtraction to solve problems	Use multiplication and division to solve problems Use addition and subtraction to solve problems		
3. Measurement and Data	Measure length, mass, and volume Use a number line to represent a number	Measure length, mass, and volume Use a number line to represent a number	Measure length, mass, and volume Use a number line to represent a number	Measure length, mass, and volume Use a number line to represent a number	Measure length, mass, and volume Use a number line to represent a number		
4. Geometry	Classify 2-dimensional shapes Draw and identify shapes	Classify 2-dimensional shapes Draw and identify shapes	Classify 2-dimensional shapes Draw and identify shapes	Classify 2-dimensional shapes Draw and identify shapes	Classify 2-dimensional shapes Draw and identify shapes		
5. Number and Operations: Fractions	Represent fractions with a number line Add and subtract fractions	Represent fractions with a number line Add and subtract fractions	Represent fractions with a number line Add and subtract fractions	Represent fractions with a number line Add and subtract fractions	Represent fractions with a number line Add and subtract fractions		
6. Expressions and Equations	Write and evaluate algebraic expressions Solve one-step equations	Write and evaluate algebraic expressions Solve one-step equations	Write and evaluate algebraic expressions Solve one-step equations	Write and evaluate algebraic expressions Solve one-step equations	Write and evaluate algebraic expressions Solve one-step equations		
7. The Number System	Use integers to represent real-world situations Add and subtract integers	Use integers to represent real-world situations Add and subtract integers	Use integers to represent real-world situations Add and subtract integers	Use integers to represent real-world situations Add and subtract integers	Use integers to represent real-world situations Add and subtract integers		
8. Ratios and Proportional Relationships	Understand ratios and proportions Use equivalent ratios	Understand ratios and proportions Use equivalent ratios	Understand ratios and proportions Use equivalent ratios	Understand ratios and proportions Use equivalent ratios	Understand ratios and proportions Use equivalent ratios		
9. Statistics and Probability	Collect and analyze data Interpret data displays	Collect and analyze data Interpret data displays	Collect and analyze data Interpret data displays	Collect and analyze data Interpret data displays	Collect and analyze data Interpret data displays		
10. Functions	Recognize functions Graph functions	Recognize functions Graph functions	Recognize functions Graph functions	Recognize functions Graph functions	Recognize functions Graph functions		

TABE Level M

Adult Basic Education (Mathematics) Curriculum Matrix							
Domain	NRS Level 1	NRS Level 2	NRS Level 3	NRS Level 4			
1. Number and Operations: Base Ten	Place value of 2-digit numbers Add and subtract 2-digit numbers Compare 2-digit numbers	Place value of 3-digit numbers Add and subtract 3-digit numbers Compare 3-digit numbers	Place value of numbers to the nearest tens or hundreds Perform multi-digit arithmetic Compare any multi-digit numbers	Understand understanding of place value Read and write multi-digit numbers in names and numerals Round multi-digit numbers to the nearest ten	Place value to understand decimals Read, write, and compare decimals to thousandths		
2. Operations and Algebraic Thinking	Use addition and subtraction to solve problems Use multiplication and division to solve problems	Use multiplication and division to solve problems Use addition and subtraction to solve problems	Use multiplication and division to solve problems Use addition and subtraction to solve problems	Use multiplication and division to solve problems Use addition and subtraction to solve problems	Use multiplication and division to solve problems Use addition and subtraction to solve problems		
3. Measurement and Data	Measure length, mass, and volume Use a number line to represent a number	Measure length, mass, and volume Use a number line to represent a number	Measure length, mass, and volume Use a number line to represent a number	Measure length, mass, and volume Use a number line to represent a number	Measure length, mass, and volume Use a number line to represent a number		
4. Geometry	Classify 2-dimensional shapes Draw and identify shapes	Classify 2-dimensional shapes Draw and identify shapes	Classify 2-dimensional shapes Draw and identify shapes	Classify 2-dimensional shapes Draw and identify shapes	Classify 2-dimensional shapes Draw and identify shapes		
5. Number and Operations: Fractions	Represent fractions with a number line Add and subtract fractions	Represent fractions with a number line Add and subtract fractions	Represent fractions with a number line Add and subtract fractions	Represent fractions with a number line Add and subtract fractions	Represent fractions with a number line Add and subtract fractions		
6. Expressions and Equations	Write and evaluate algebraic expressions Solve one-step equations	Write and evaluate algebraic expressions Solve one-step equations	Write and evaluate algebraic expressions Solve one-step equations	Write and evaluate algebraic expressions Solve one-step equations	Write and evaluate algebraic expressions Solve one-step equations		
7. The Number System	Use integers to represent real-world situations Add and subtract integers	Use integers to represent real-world situations Add and subtract integers	Use integers to represent real-world situations Add and subtract integers	Use integers to represent real-world situations Add and subtract integers	Use integers to represent real-world situations Add and subtract integers		
8. Ratios and Proportional Relationships	Understand ratios and proportions Use equivalent ratios	Understand ratios and proportions Use equivalent ratios	Understand ratios and proportions Use equivalent ratios	Understand ratios and proportions Use equivalent ratios	Understand ratios and proportions Use equivalent ratios		
9. Statistics and Probability	Collect and analyze data Interpret data displays	Collect and analyze data Interpret data displays	Collect and analyze data Interpret data displays	Collect and analyze data Interpret data displays	Collect and analyze data Interpret data displays		
10. Functions	Recognize functions Graph functions	Recognize functions Graph functions	Recognize functions Graph functions	Recognize functions Graph functions	Recognize functions Graph functions		

TABE Level D

Adult Basic Education (Mathematics) Curriculum Matrix										
Domain	NRS Level 1	NRS Level 2	NRS Level 3	NRS Level 4						
1. Number and Operations: Base Ten	Place Value of 2-Digit Numbers	Read and Subtract 2-Digit Numbers	Read Values of 3-Digit Numbers	Read and Subtract 3-Digit Numbers	Read Whole Numbers to the Nearest Tens or Hundreds	Use Properties of Operations to Perform Multi-Digit Arithmetic	Generate Understanding of Place Value	Read and Write Multi-Digit Numbers in Names and Expanded Form	Perform 4-Digit Numbers by 1- or 2-Digit Numbers	Use Place Value to Understand Decimals
	Compare 2-Digit Numbers	Model Addition and Subtraction of 2-Digit Numbers	Compare 3-Digit Numbers	Model Addition and Subtraction of 3-Digit Numbers	Multiply 1-Digit Numbers by 2-Digit Multiples of 10	Use Properties of Operations to Multiply 1-Digit Numbers by 2-Digit Numbers	Compare Any Multi-Digit Number	Read Multi-Digit Numbers to the Place Value	Divide 4-Digit Numbers by 1-Digit Numbers	Read, Write, and Compare Decimals to the Nearest Hundredths
2. Operations and Algebraic Thinking	Solve Addition and Subtraction Problems within 20	The Equal Sign	Solve Addition and Subtraction Problems within 100	Solve Multiplication and Division Problems within 100	Multiplication Facts within 100	Solve 2-Step Problems or Equations	Use Multi-Step Problems Using Base Operations	Compare Multiplications as Comparison Statements	Interpret the Remainder in Problems	Use the Remainder of Any 4-Digit Whole Number
	Combinations and Inverse Property of Addition	Using Addition and Subtraction Equations	Combinations and Inverse Property of Multiplication	Use Multiplication and Division Equations	Mechanical Properties of Multiplication	Word Manipulation and Division within 100	Check Answers Using Inverse Computation and Estimation	Use Problems Involving Multiple Combinations	Generate and Analyze Number and Geometric Patterns	Identify Invariant Features of a Pattern from a Rule
3. Measurement and Data	Organize, Represent, and Interpret 3 Categories of Data	Indirectly Measure Lengths Through Iteration	Analyze and Generate Picture Graphs and Bar Graphs	Analyze and Generate Line Plots	Measure and Estimate Lengths of Equivalent Units	Solve Problems Involving Time, Money, and Mass	Solve Problems in Length, Time, Money, Mass and Volume Including Operations	Solve Problems Involving Measurement Presented in Line Plots	Understand Concepts of Angle Measurement	Recognize Angles
		Represent Whole Number Lengths on a Number Line	Measuring and Estimating Areas of Plane Figures	Solve Problems Involving Perimeter of Polygons	Solve Problems Involving Area	Use Lines to Model Addition and Multiplication	Apply Area and Perimeter Formulas for Rectangles	Classify Measurements within a System	Recognize Line Fractions One 1/2, 1/4, 1/8 in a Line Plot	
4. Geometry	Analyze, Compare, and Classify 2-Dimensional Shapes	0- and 3-Dimensional Composite Shapes	Analyze, Draw, and Compare Shapes Having Specified Attributes	Identify Common Polygons and 3-Dimensional Figures	Categorize Shapes with Common Attributes	Partition Shapes into Parts with Equal Areas	Solve Problems by Graphing Points on the Coordinate Plane	Solve Problems Involving Area, Surface Area, and Volume	Draw Polygons in a Coordinate Plane	Solve Problems Involving Scale Drawings of Geometric Figures
5. Number and Operations: Fractions			Represent Fractions with Denominators of 2, 3, 4, 6, or 8 on a Number Line	Recognize Equivalent Fractions on a Number Line	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Fractions Using Division Combinations of Denominators	Decompose Fractions as Sums of Fractions with the Same Denominator	Decompose Fractions as Sums of Fractions with Different Denominators	
6. Expressions and Equations										
7. The Number System										
8. Ratios and Proportional Relationships										
9. Statistics and Probability										
10. Functions										

Applications of the TABE Overlays

- Centralized assessment resource for teachers and students.
- Clearly identified and chunked assessment targets or objectives
- Checklist of major ABE mathematics concepts
- Scope and sequence guide for educators which helps lesson planning and pacing
- Resource correlation guide for teachers and students
- A tool for student grouping for differentiating instruction
- A progress monitoring tool for teachers and students

Sample Pacing Guide

Domain	NRS Level 1		NRS Level 2			
1. Number and Operations: Base Ten	Place Value of 2-Digit Numbers	Add and Subtract 2-Digit Numbers	Place Value of 3-Digit Numbers	Add and Subtract 3-Digit Numbers	Round Whole Numbers to the Nearest Tens or Hundreds	Use Properties of Operations to Perform Multi-Digit Arithmetic
	Compare 2-Digit Numbers	Model Addition and Subtraction of 2-Digit Numbers	Compare 3-Digit Numbers	Model Addition and Subtraction of 3-Digit Numbers	Multiply 1-Digit Numbers by 2-Digit Multiples of 10	Mentally Add and Subtract 10 or 100 to 3-Digit Numbers
2. Operations and Algebraic Thinking	Solve Addition and Subtraction Problems within 20	The Equal Sign	Solve Addition and Subtraction Problems within 100	Solve Multiplication and Division Problems within 100	Multiplication Facts within 100	Solve 2-Step Problems or Equations
	Commutative and Associative Property of Addition	Solving Addition and Subtraction Equations	Commutative and Associative Property of Multiplication	Solve Multiplication and Division Equations	Distributive Property of Multiplication	Model Multiplication and Division within 100
3. Measurement and Data	Organize, Represent, and Interpret 3 Categories of Data	Indirectly Measure Lengths through Iteration	Analyze and Generate Picture Graphs and Bar Graphs	Analyze and Generate Line Plots	Measure and Estimate Lengths in Standard Units	Solve Problems Involving Time, Volume and Mass
			Represent Whole Number Lengths on a Number Line	Measuring and Estimating Areas of Plane Figures	Solve Problems Involving Perimeter of Polygons	Use Areas to Model Addition and Multiplication
4. Geometry	Analyze, Compare, and Compose 3-Dimensional Shapes	2- and 3-Dimensional Composite Shapes	Analyze, Draw and Compare Shapes Having Specified Attributes	Identify Common Polygons and 3-Dimensional Figures	Categorize Shapes with Common Attributes	Partition Shapes into Parts with Equal Areas
5. Number and Operations: Fractions			Represent Fractions with Denominators 2, 3, 4, 6, or 8 on a Number Line	Recognize Equivalent Fractions on a Number Line	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator

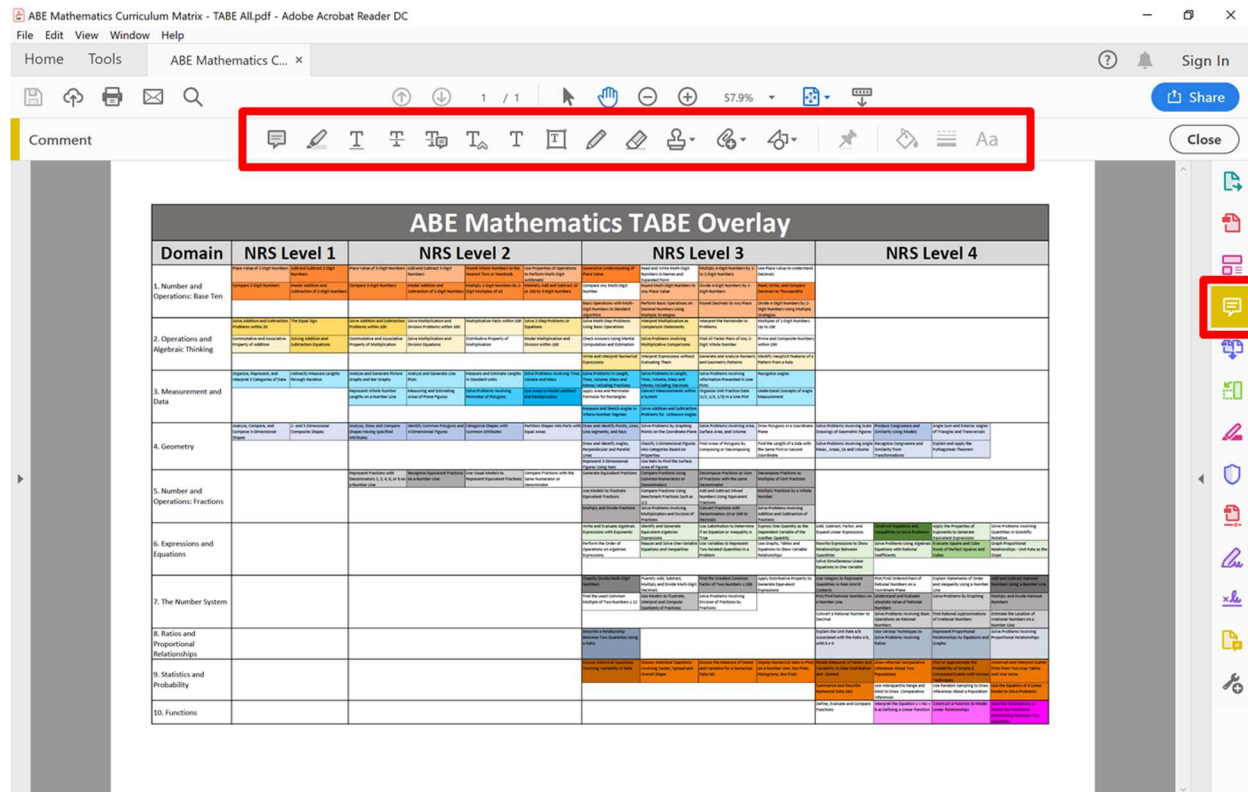
Sample Resource Guide

Domain	NRS Level 1		NRS Level 2			
1. Number and Operations: Base Ten	Place Value of 2-Digit Numbers	Add and Subtract 2-Digit Numbers	Place Value of 3-Digit Numbers	Add and Subtract 3-Digit Numbers	Round Whole Numbers to the Nearest Tens or Hundreds	Use Properties of Operations to Perform Multi-Digit Arithmetic
	Compare 2-Digit Numbers	Model Addition and Subtraction of 2-Digit Numbers	Compare 3-Digit Numbers	Model Addition and Subtraction of 3-Digit Numbers	Multiply 2-Digit Numbers By 2-Digit Multiples of 10	Mentally Add and Subtract 10 or 100 to 3-Digit Numbers
Pages 1-9						
Pages 28-31						
FASST Math Activity 6						
2. Operations and Algebraic Thinking	Solve Addition and Subtraction Problems within 20	The Equal Sign	Solve Addition and Subtraction Problems within 100	Solve Multiplication and Division Problems within 100	Multiplication Facts within 100	Solve 2-Step Problems or Equations
	Commutative and Associative Property of Addition	Solve Addition and Subtraction Equations	Commutative and Associative Properties of Multiplication	Solve Multiplication and Division Equations	Distributive Property of Multiplication	Model Multiplication and Division within 100
Pages 10-15						
IPDAE Lesson Plan						
IPDAE Pre-Algebra Video						
3. Measurement and Data	Organize, Represent, and Interpret 3 Categories of Data	Indirectly Measure Lengths through Iteration	Analyze and Generate Picture Graphs and Bar Graphs	Analyze and Generate Line Plots	Measure and Estimate Lengths in Standard Units	Solve Problems Involving Time, Volume and Mass
			Represent Whole Number Lengths on a Number Line	Measuring and Estimating Areas of Plane Figures	Solve Problems Involving Perimeter of Polygons	Use Areas to Model Addition and Multiplication
Pages 16-27						
IPDAE Grab & Go Video						
4. Geometry	Analyze, Compare, and Compose 3-Dimensional Shapes	2- and 3-Dimensional Composite Shapes	Analyze, Draw and Compare Shapes Having Specified Attributes	Identify Common Polygons and 3-Dimensional Figures	Categorize Shapes with Common Attributes	Partition Shapes into Parts with Equal Areas
Online Unit 3						
Teacher Worksheets 3-6						
Chapter 2						
5. Number and Operations: Fractions			Represent Fractions with Denominators 2, 3, 4, 6, or 8 on a Number Line	Recognize Equivalent Fractions on a Number Line	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator
PurpleMath.com						

Reflection:

What other uses for the TABE Overlays can you envision?

Annotating Using Adobe Acrobat Reader



To download Adobe Acrobat Reader DC, follow the link below:

<https://acrobat.adobe.com/us/en/acrobat/pdf-reader.html>

More Things to Come

- Hyperlinked ABE Mathematics Curriculum Matrix on the IPDAE Website
- ABE Math Study Guides Add-On
- Math Manipulatives Overlay
- GED Mathematical Reasoning Matrix

Now Available on the IPDAE Website

- Workshops
- E-Learning Modules
- Lesson Plans
- Grab and Gos (videos)
- Webinar Wednesdays
- Toolkits
- Career Exploration
- Links

