


Understanding and Applying the TABE 11&12 Overlay to the ABE Math Curriculum Matrix


January 16, 2019

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Your Facilitator



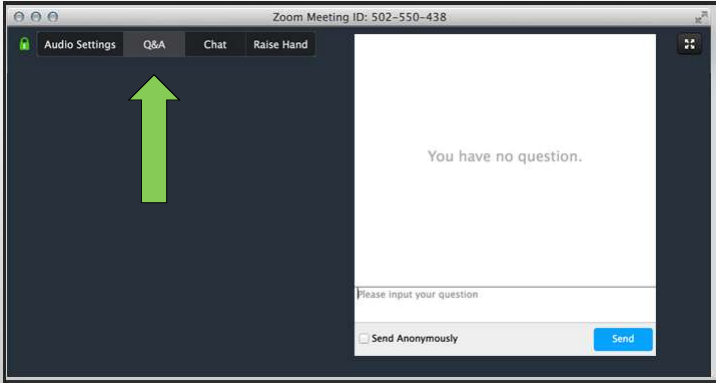
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Webinar **Things to Remember**

- If you have a question, please type it into the **Q&A** option.



- Attendee microphones will be muted. You will be in **listen only** mode.
- Today's presentation is being **recorded**. It will be archived and available on the IPDAE website within 48 hours.

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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

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TABE
TABE 11/12

INSTRUCTIONAL CHALLENGES WITH TABE 11&12

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Open Discussion

Curriculum

Format and Content

Requirements

Tools

Classroom Instruction

Interpreting Scores

Resources

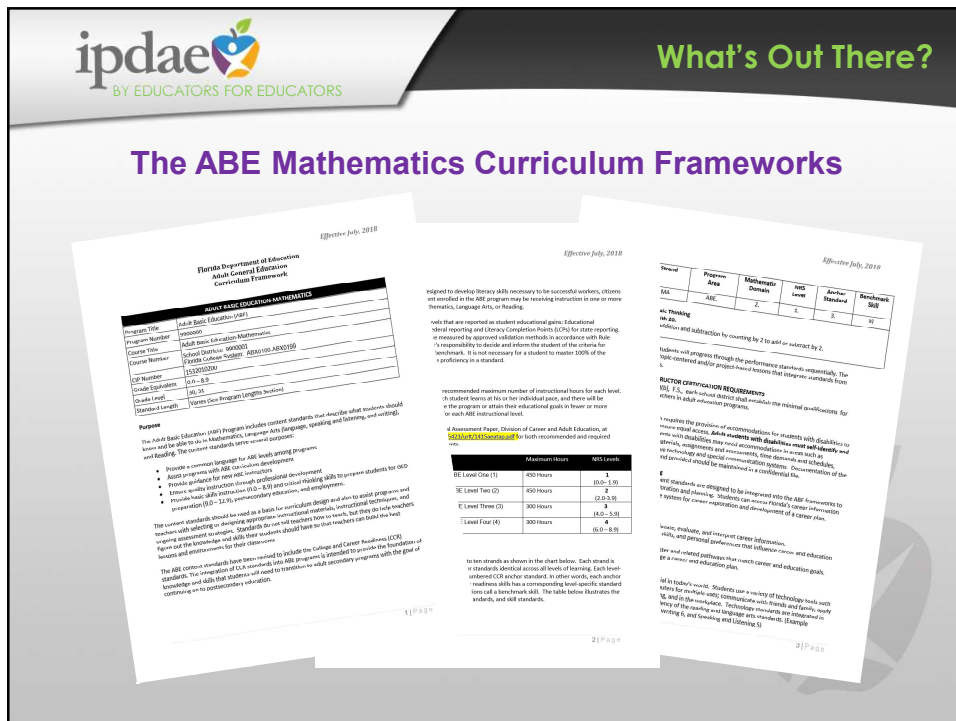
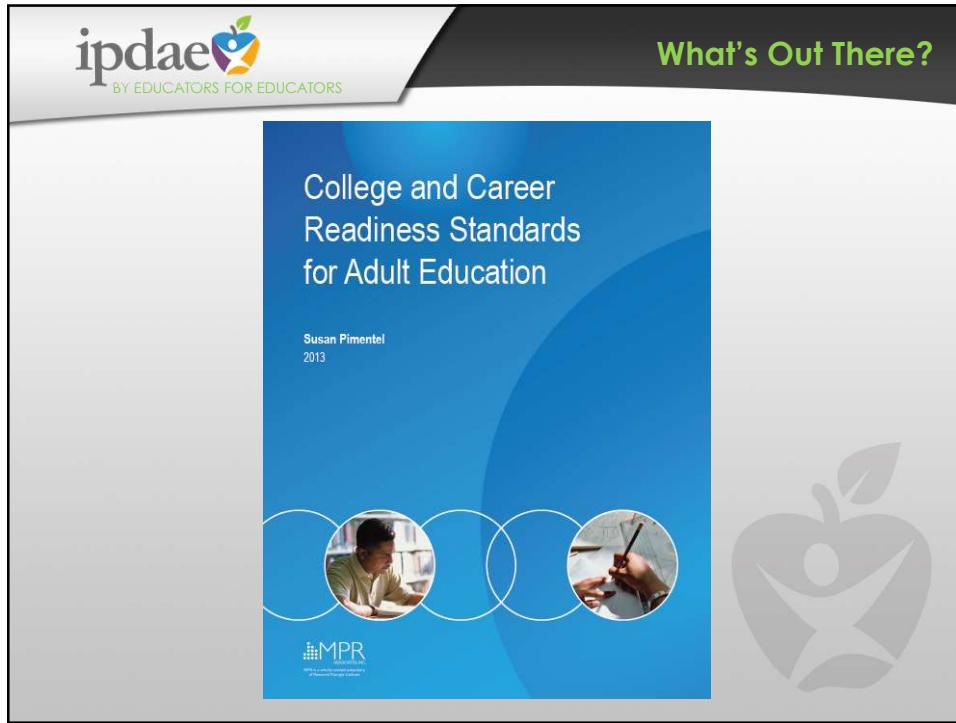
Planning and Pacing

Professional Development

TABE
TABE 11/12

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What's Out There?

The ABE Mathematics Curriculum Matrix

Domain	NRS Level 1	NRS Level 2	NRS Level 3	NRS Level 4
1. Number and Operations: Base Ten
2. Operations and Algebraic Thinking
3. Measurement and Data
4. Geometry
5. Number and Operations: Fractions
6. Expressions and Equations
7. The Number System
8. Functions
9. Statistics and Probability
10. Functions

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What's Out There?

The TABE Assessment Blueprints

Tests of Adult Basic Education
LEVEL E
TABE 11 & 12 MATHEMATICS BLUEPRINT OVERVIEW

STANDARD DESCRIPTION	ALCCO LEVEL	TABE 11/12 EMPHASIS LEVEL
1. A fraction $\frac{1}{b}$ is the quantity formed by 1 part when a whole is split into equal parts, each called a fraction. $\frac{a}{b}$ is the quantity formed of a parts $\frac{1}{b}$.	Medium	Medium
2. A fraction $\frac{a}{b}$ is a number on the number line, represent fractions on a number line.	Medium	Medium
3. Add and subtract fractions with like denominators.	High	High
4. Multiply and divide whole numbers and multiply/divide whole numbers and fractions.	Medium	Medium
5. Add, subtract, multiply, and divide mixed numbers and add, subtract, multiply, and divide fractions.	Medium	Medium
6. Add, subtract, multiply, and divide mixed numbers and add, subtract, multiply, and divide fractions.	Low	Low
7. Add, subtract, multiply, and divide mixed numbers and add, subtract, multiply, and divide fractions.	Low	Low
8. Add, subtract, multiply, and divide mixed numbers and add, subtract, multiply, and divide fractions.	Low	Low
9. Add, subtract, multiply, and divide mixed numbers and add, subtract, multiply, and divide fractions.	Low	Low
10. Add, subtract, multiply, and divide mixed numbers and add, subtract, multiply, and divide fractions.	Low	Low

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What's Out There?

Publisher Resources, Correlations and Alignments

Scoreboost for TABE

TABE II/12 Curriculum Guide

TABE Tutor Correlations

TABE II & 12 Transition Toolkits

Skills Practice Worksheet for TABE 11 and 12 Language Level A

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What's Out There?

Mathematics - Level A Training Student

Question 4 00:46:31

A county clerk has a given amount of money to budget for cultural events.

$y = -0.45x + 18$


Based on the scatterplot, what does the point (0, 18) represent?

- A the total amount of the budget given to the county
- B the total amount of the budget spent after 18 months
- C the average amount spent out of the budget each month
- D the predicted amount of time after which the entire budget will be spent

<https://wbte.drctdirect.com/TABE/portals/tabe>

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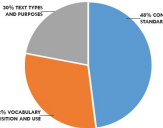


TABE Assessment Blueprints

Tests of Adult Basic Education

LEVEL E

TABE 11 & 12 LANGUAGE BLUEPRINT OVERVIEW

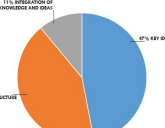


STANDARD	STANDARD DESCRIPTION	ABCEC LEVEL	TABE 11/12 EMPHASIS LEVEL
2.L.1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking (2.L.1.a, 2.L.1.b, 2.L.1.c, 2.L.1.d)	5	High
3.L.1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking (3.L.1.a, 3.L.1.b, 3.L.1.c, 3.L.1.d, 3.L.1.e, 3.L.1.f, 3.L.1.g, 3.L.1.h)	5	High
2.L.2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing (2.L.2.a, 2.L.2.b, 2.L.2.c, 2.L.2.d)	5	High
3.L.2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing (3.L.2.a, 3.L.2.b, 3.L.2.c, 3.L.2.d, 3.L.2.e, 3.L.2.f)	5	High

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LEVEL M

TABE 11 & 12 READING BLUEPRINT OVERVIEW

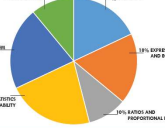


STANDARD	STANDARD DESCRIPTION	ABCEC LEVEL	TABE 11/12 EMPHASIS LEVEL
4.R.1	Refer to details and examples in a text when explaining what the text says explicitly and what it implies (4.R.1.a, 4.R.1.b)	C	Low
5.R.1	Refer to details and examples in a text when explaining what the text says explicitly and what it implies (5.R.1.a, 5.R.1.b)	C	Medium
5.R.2	Quote accurately from a text when explaining what the text says explicitly and what it implies (5.R.2.a, 5.R.2.b)	C	Medium
5.R.3	Quote accurately from a text when explaining what the text says explicitly and what it implies (5.R.3.a, 5.R.3.b)	C	Low
4.R.2	Analyze how main ideas and supporting details are developed in a text and analyze how such details contribute to the overall meaning and style (4.R.2.a, 4.R.2.b)	C	High
4.R.3	Analyze how main ideas and supporting details are developed in a text and analyze how such details contribute to the overall meaning and style (4.R.3.a, 4.R.3.b)	C	High

Tests of Adult Basic Education

LEVEL D


TABE 11 & 12 MATHEMATICS BLUEPRINT OVERVIEW



STANDARD	STANDARD DESCRIPTION	ABCEC LEVEL	TABE 11/12 EMPHASIS LEVEL
7.NS.1	Apply and extend understanding of rational numbers to operations with rational numbers (7.NS.1.a, 7.NS.1.b)	D	Low
8.EE.1	Understand that two variables, one numerical and one graphical, can be related (8.EE.1.a, 8.EE.1.b)	D	Medium
7.G.4	Understand that two-dimensional figures formed by the same two parallel lines cut by a transversal are similar (7.G.4.a, 7.G.4.b)	D	Low
8.G.1	Understand that a two-dimensional figure is similar to itself or another two-dimensional figure (8.G.1.a, 8.G.1.b)	D	Low
7.G.2	Use facts about supplementary, complementary, vertical, and adjacent angles in multi-step problems to write and solve equations for an unknown angle in a figure (7.G.2.a, 7.G.2.b)	D	Low
7.G.3	Use facts about complementary, supplementary, vertical, and adjacent angles in multi-step problems to write and solve equations for an unknown angle in a figure (7.G.3.a, 7.G.3.b)	D	Low
8.G.2	Understand that the area of a triangle is half of a parallelogram's area (8.G.2.a, 8.G.2.b)	D	Low
8.G.3	Understand that the area of a trapezoid is half of a parallelogram's area (8.G.3.a, 8.G.3.b)	D	Low
8.G.4	Understand that the area of a circle is half of a rectangle's area (8.G.4.a, 8.G.4.b)	D	Low

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TABE 11 & 12

Comparing the Matrix to the TABE Assessment Blueprints

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

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

Emphasis Level

Low Medium High

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	Compare 2-Digit Numbers	Place Value of 3-Digit Numbers Add and Subtract 3-Digit Numbers	Compare 3-Digit Numbers	Add and Subtract 3-Digit Numbers Round Whole Numbers to the Nearest Tens	Multiply 1-Digit Numbers by 2 or 10	Divide Whole Numbers by 10
2. Operations and Algebraic Thinking	Solve Addition and Subtraction Problems within 20 Commutative and Associative Property of Addition	The Equal Sign Solving Addition and Subtraction Equations	Solve Addition and Subtraction Problems within 100 Commutative and Associative Property of Multiplication	Solve Multiplication and Division Problems within 100	Multiplication and Division Problems within 100 Distributive Property of Multiplication	Multiply and Divide within 100	Solve 2-Step Equations	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 Lengths in Standard Units	Estimate Lengths	Solve Problems Involving Time, Volume and Mass	Use Area 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		

Varying degrees of darkness represent emphasis level.

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An Overlay for Every Level

TABE Level L & E

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
2. Operations and Algebraic Thinking	Solve Addition and Subtraction Problems within 20 Commutative and Associative Property of Addition	The Equal Sign Solving Addition and Subtraction Equations	Solve Addition and Subtraction Problems within 100 Commutative and Associative Property of Multiplication	Solve Multiplication and Division Problems within 100 Distributive Property of Multiplication
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
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
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
6. Expressions and Equations			Solve Linear Equations and Inequalities in One Variable	Solve Linear Equations and Inequalities in Two Variables
7. The Number System			Use the Real Number System to Solve Real-World and Mathematical Problems	Use the Real Number System to Solve Real-World and Mathematical Problems
8. Ratios and Proportional Relationships			Use Ratios to Represent Proportional Relationships	Use Ratios to Represent Proportional Relationships
9. Statistics and Probability			Use Statistics to Represent Data	Use Statistics to Represent Data
10. Functions			Use Functions to Represent Relationships	Use Functions to Represent Relationships

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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
2. Operations and Algebraic Thinking
3. Measurement and Data
4. Geometry
5. Number and Operations: Fractions
6. Expressions and Equations
7. The Number System
8. Ratios and Proportional Relationships
9. Statistics and Probability
10. Functions

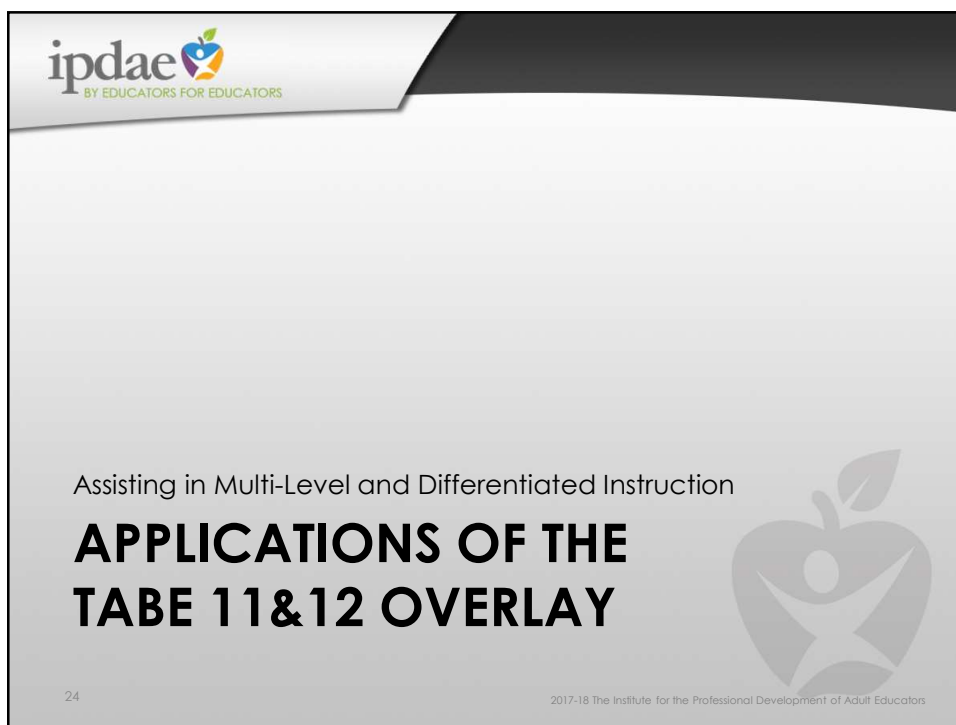
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TABE Level D

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
2. Operations and Algebraic Thinking
3. Measurement and Data
4. Geometry
5. Number and Operations: Fractions
6. Expressions and Equations
7. The Number System
8. Ratios and Proportional Relationships
9. Statistics and Probability
10. Functions

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Applications

- 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


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	The Inverse 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

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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	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	Subtraction Equations	Commutative and Associative Properties	Solve Multiplication and Division Problems	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
			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
5. Number and Operations: Fractions						

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ABE Mathematics Curriculum Matrix - TABE All.pdf - Adobe Acrobat Reader DC

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57.6%

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Edit PDF
Comment
Combine Files
Organize Pages
Redact
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Optimize PDF
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Domain	NRS Level 1	NRS Level 2	NRS Level 3	NRS Level 4
1. Number and Operations: Base Ten				
2. Operations and Algebraic Thinking				
3. Measurement and Data				
4. Geometry				
5. Number and Operations: Fractions				
6. Expressions and Equations				
7. The Number System				
8. Ratios and Proportional Relationships				
9. Statistics and Probability				
10. Functions				

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Annotate in Acrobat Reader

ABE Mathematics Curriculum Matrix - TABE All.pdf - Adobe Acrobat Reader DC

File Edit View Window Help

Home Tools ABE Mathematics C... x

Comment

ABE Mathematics TABE Overlay

Domain	NRS Level 1	NRS Level 2	NRS Level 3	NRS Level 4
1. Number and Operations: Base Ten	1.1.1.1, 1.1.1.2, 1.1.1.3, 1.1.1.4, 1.1.1.5, 1.1.1.6, 1.1.1.7, 1.1.1.8, 1.1.1.9, 1.1.1.10, 1.1.1.11, 1.1.1.12, 1.1.1.13, 1.1.1.14, 1.1.1.15, 1.1.1.16, 1.1.1.17, 1.1.1.18, 1.1.1.19, 1.1.1.20, 1.1.1.21, 1.1.1.22, 1.1.1.23, 1.1.1.24, 1.1.1.25, 1.1.1.26, 1.1.1.27, 1.1.1.28, 1.1.1.29, 1.1.1.30, 1.1.1.31, 1.1.1.32, 1.1.1.33, 1.1.1.34, 1.1.1.35, 1.1.1.36, 1.1.1.37, 1.1.1.38, 1.1.1.39, 1.1.1.40, 1.1.1.41, 1.1.1.42, 1.1.1.43, 1.1.1.44, 1.1.1.45, 1.1.1.46, 1.1.1.47, 1.1.1.48, 1.1.1.49, 1.1.1.50, 1.1.1.51, 1.1.1.52, 1.1.1.53, 1.1.1.54, 1.1.1.55, 1.1.1.56, 1.1.1.57, 1.1.1.58, 1.1.1.59, 1.1.1.60, 1.1.1.61, 1.1.1.62, 1.1.1.63, 1.1.1.64, 1.1.1.65, 1.1.1.66, 1.1.1.67, 1.1.1.68, 1.1.1.69, 1.1.1.70, 1.1.1.71, 1.1.1.72, 1.1.1.73, 1.1.1.74, 1.1.1.75, 1.1.1.76, 1.1.1.77, 1.1.1.78, 1.1.1.79, 1.1.1.80, 1.1.1.81, 1.1.1.82, 1.1.1.83, 1.1.1.84, 1.1.1.85, 1.1.1.86, 1.1.1.87, 1.1.1.88, 1.1.1.89, 1.1.1.90, 1.1.1.91, 1.1.1.92, 1.1.1.93, 1.1.1.94, 1.1.1.95, 1.1.1.96, 1.1.1.97, 1.1.1.98, 1.1.1.99, 1.1.1.100			
2. Operations and Algebraic Thinking				
3. Measurement and Data				
4. Geometry				
5. Number and Operations: Fractions				
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7. The Number System				
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10. Functions				

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**DOWNLOADING & PRINTING
THE TABE 11&12 OVERLAY**

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Understanding and Applying the TABE 11&12 Overlay to the ABE Math Curriculum Matrix

Duration: 1 Hour

Description: The math curriculum map, developed in partnership with the Florida Department of Education, is a user-friendly version of the ABE Mathematics Curriculum Matrix. Using this map, teachers will be able to seamlessly navigate through various skills and standards aligned with the College and Career Readiness Standards. This webinar will show teachers how to use this versatile tool in planning for instruction and remediation.

Presentation Documents:

- Presentation (PDF)
- Handout: ABE Math Curriculum Matrix (PDF)
- Handout: ABE Math Curriculum Matrix Part 1 Activity Book (PDF)
- Handout: ABE Math 2018 (PDF)
- Handout: High Impact Indicators (PDF)

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How to Print

Use 11in x 17in (Tabloid) Printer/Copier Paper

Letter: 11 in x 8.5 in

Legal: 14 in x 8.5 in

Tabloid: 17 in x 11 in

May be printed on letter and legal size paper but font will be too small to read.

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How to Print/Copy

Prints on certain printers



Copies on most copy machines



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**EXCITING THINGS TO COME
OVERLAY ADD-ON**




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2017-18 The Institute for the Professional Development of Adult Educators



Hyperlinks to Standards and Resources


Coming Soon!




Domain	NRS Level 1	NRS Level 2	NRS Level 3	NRS Level 4
1. Number and Operations: Base Ten	1.NB.A.1-1.NB.A.4	1.NB.B.1-1.NB.B.4	1.NB.C.1-1.NB.C.4	1.NB.D.1-1.NB.D.4
2. Operations and Algebraic Thinking	2.OA.A.1-2.OA.A.4	2.OA.B.1-2.OA.B.4	2.OA.C.1-2.OA.C.4	2.OA.D.1-2.OA.D.4
3. Measurement and Data	3.MD.A.1-3.MD.A.4	3.MD.B.1-3.MD.B.4	3.MD.C.1-3.MD.C.4	3.MD.D.1-3.MD.D.4
4. Geometry	4.G.A.1-4.G.A.4	4.G.B.1-4.G.B.4	4.G.C.1-4.G.C.4	4.G.D.1-4.G.D.4
5. Number and Operations: Fractions	5.NF.A.1-5.NF.A.4	5.NF.B.1-5.NF.B.4	5.NF.C.1-5.NF.C.4	5.NF.D.1-5.NF.D.4
6. Expressions and Equations	6.EE.A.1-6.EE.A.4	6.EE.B.1-6.EE.B.4	6.EE.C.1-6.EE.C.4	6.EE.D.1-6.EE.D.4
7. The Number System	7.NS.A.1-7.NS.A.4	7.NS.B.1-7.NS.B.4	7.NS.C.1-7.NS.C.4	7.NS.D.1-7.NS.D.4
8. Ratios and Proportional Relationships	8.RA.A.1-8.RA.A.4	8.RA.B.1-8.RA.B.4	8.RA.C.1-8.RA.C.4	8.RA.D.1-8.RA.D.4
9. Statistics and Probability	9.SP.A.1-9.SP.A.4	9.SP.B.1-9.SP.B.4	9.SP.C.1-9.SP.C.4	9.SP.D.1-9.SP.D.4
10. Functions	10.F.A.1-10.F.A.4	10.F.B.1-10.F.B.4	10.F.C.1-10.F.C.4	10.F.D.1-10.F.D.4

1.2 Use place value understanding and the properties of operations to add and subtract within 100.


- Add within 100, including adding a two digit number and a one-digit number, two-digit numbers, and multiples of 10.
- Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose (create) a ten.
- Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count.
- Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences).
- Use concrete models, 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 and explain the reasoning used.




Lessons




Links




Toolkits




Videos



Webinars




Workshops



Matrix Study Guides

ABE Mathematics Study Guides



Institute for the Professional Development of Adult Educators

Mini-Lesson

Types of Charts

There are several different types of charts and graphs. The four most common are probably line graphs, bar graphs and histograms, pie charts, and Cartesian graphs. They are generally used for, and best for, quite different things.

You would use:

- Bar graphs to show numbers that are independent of each other. Example data might include things like the number of people who preferred each of Chinese takeout, Indian takeaways and fish and chips.
- Pie charts to show you how a whole is divided into different parts. You might, for example, want to show how a budget had been spent on different items in a particular year.
- Line graphs to show you how numbers have changed over time. They are used when you have data that are connected, and to show trends, for example, average night time temperature in each month of the year.
- Cartesian graphs have numbers on both axes, which therefore allow you to show how changes in one thing affect another. These are widely used in mathematics, and particularly in Algebra.

Axis

Graphs have two axes, the lines that run across the bottom and up the side. The line along the bottom is called the horizontal or x-axis, and the line up the side is called the vertical or y-axis.


The x-axis may contain categories or numbers. You read it from the bottom left of the graph.

The y-axis usually contains numbers, again starting from the bottom left of the graph.

The numbers on the y-axis generally, but not always, start at 0 in the bottom left of the graph, and move upwards. Usually the axes of a graph are labelled to indicate the type of data they show.


Guided Practice

- Project the What's It Made Of? worksheet (see suggested media).
- Tell students that this is an example of a type of chart called a pie chart.
- Explain that this pie chart is a visual representation of the different elements that make up the Earth's crust.
- Work with students to use the clues at the bottom of the page to fill in the correct elements in each slice of the pie chart.



Presented by: Ronald Cruz

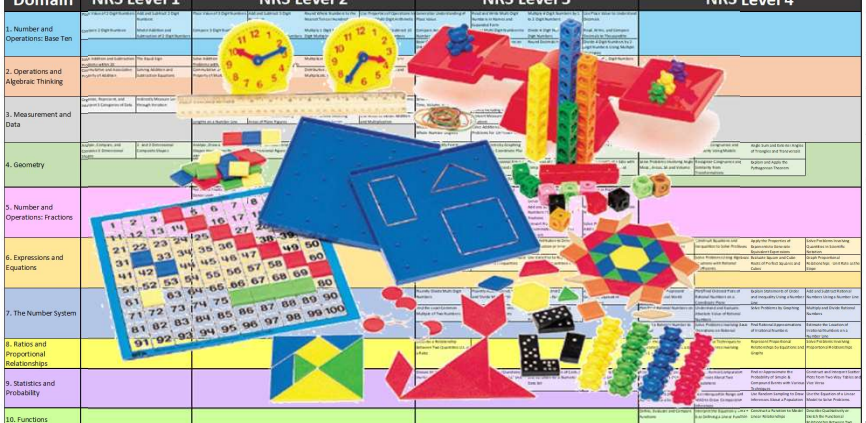
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Manipulatives Overlay

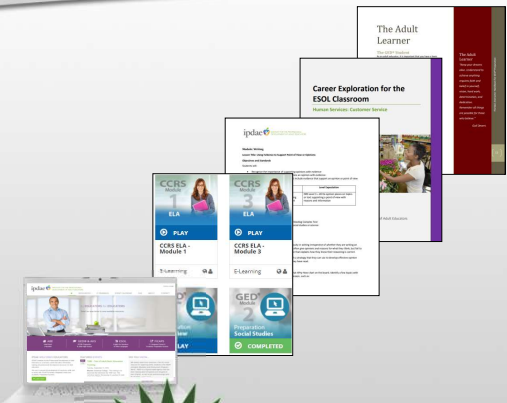
Adult Basic Education (Mathematics) Curriculum Matrix

Domain	NRS Level 1	NRS Level 2	NRS Level 3	NRS Level 4
1. Number and Operations: Base Ten				
2. Operations and Algebraic Thinking				
3. Measurement and Data				
4. Geometry				
5. Number and Operations: Fractions				
6. Ratios and Equations				
7. The Number System				
8. Ratios and Proportional Relationships				
9. Statistics and Probability				
10. Functions				






IPDAE Resources



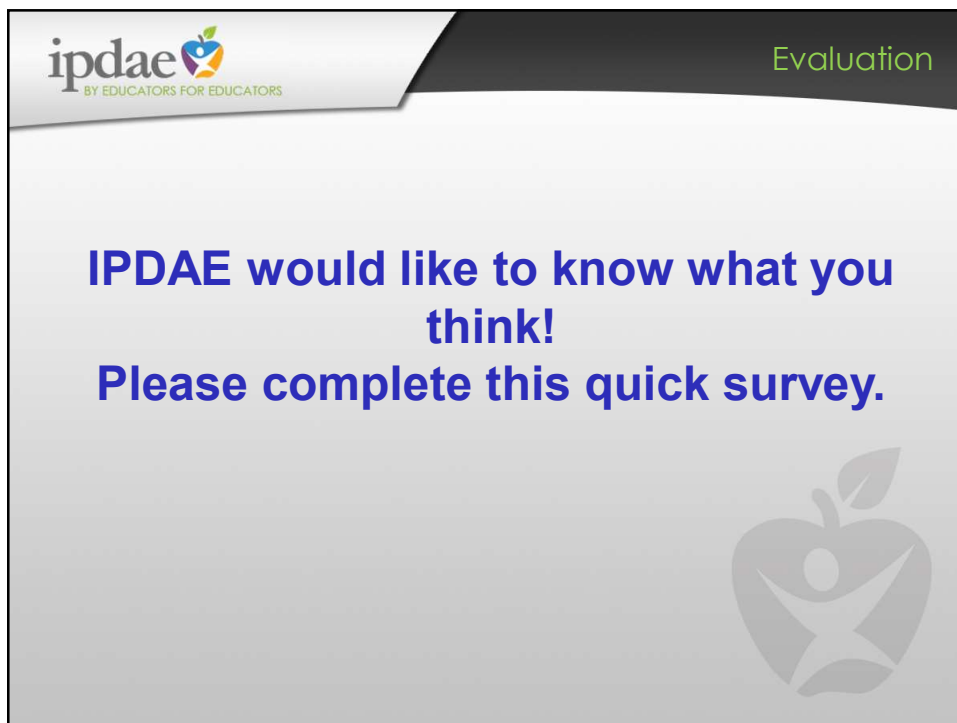
- ✓ Workshops
- ✓ E-Learning Modules
- ✓ Lesson Plans
- ✓ Grab and Gos (videos)
- ✓ Webinar Wednesdays
- ✓ Toolkits
- ✓ Career Exploration
- ✓ Links



The GED Mathematics Matrix

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Thank You



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**Thank you for your
participation!**

