Diving Deeper into IPDAE's Matrix Suite for ABE and GED

Webinar



Activity Book Institute for the Professional Development of Adult Educators

WEBINAR ACTIVITY BOOK

Diving Deeper into IPDAE's Matrix Suite for ABE and GED

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Agenda

- I. Overview
- II. Core Matrices
- III. Individualized Student Plans (ISP's)
- IV. Resource Activities
- V. Applications of Matrix Suite Resources
- VI. Question and Answer
- VII. Evaluation

Guiding Questions

Slide(s)	Guiding Questions	My Thoughts
6	Decribe the features of the ABE Mathematics Matrix.	
8	What is the statewide difference between the GED Matrix and the ABE Matrices?	
10	How do you use the Individualized Student Plan to track student progress?	
11-14	How can you use the Resource Activities to help struggling students in class?	
15-30	Identify three applications of any Matrix Suite Resource and briefly explain each one in your own words.	
31	How will you apply the information you gained from this webinar?	

Core Matrices

Use the Core Matrices listed below to identify the content that you have to teach and the scope of the entire ABE and GED Curriculum. Each matrix is designed to cover each level of NRS, categorized by domains. Each cell represents a skill, big idea, topic, concept and/or a combination of these, summarized, ordered and chunked altogether to fit a single page spread.

Core Matrices

- ABE Mathematics
- ABE Reading
- ABE Language Arts
- ABE Writing
- GED Mathematical Reasoning Performance Level Descriptors (PLD) Matrix

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Writing Anchor 4: Producing writing			Produce uniting in addition development and supported and appropriate the function of program.		Produces data and collected arching in which the development and myachesian are appropriate to and, parapase, and andianas.		Antime the set observes with y a state the technological system is a set of a set appropriate to but, perjong and antisena.		Produces data and otherwork acting localized for development, regularizint, and agin are appropriate to tash pergram, articultures.	
Writing Anchor 5: Developing & strengthening writing	from an a legal, required to quantizer, and appreciant, and add details.		Sugar per Terrer Terreri in Terrer Strengt		Bernan per Berger Berner Bernard in Bernar Bernard		unaques par entánsi as Recordy Paysons por Yango Report Recording Payson Aspons		magne par enderi se Recenț Tegaren per Dagne Tegare Tegareț în Reșceduțenț	
Writing Anchor 6:	the scattery of digital hands to province and public .		Name appending and appendix of the property of	Access for a scheming it could be common along a scheme of the scheme of	nga kapangka kapapang sigaran Kapang kapang kapang kapang sa	Amount over pupping and a	And the function of the state o	and a summer plan.	analyzed product painty, and place	
Using technology	Disma digital citizandig		Complete an electronic juli application.	Create simple data tables	ومعدود وتجهزه مدكامكم محيط ورحالا معرم ومحا	fundaming and related information searches indefinited	Course and pure authorizing a mainly of programs and a threat and track.	Annual to particular, including a particular particular and the second s		
Writing Anchor 7: Conducting research	Autilipate in Austric research and writing projects.		Contract dust would project the facility householge dense only.		Conduct short research projects that are never all sources to indefine an independence of the second		contract destination and growing spectrum.		Conduct search pojech to some a speciae ar sole a problem, specialized endigite sources.	
Writing Anchor B: Evaluating sources for integration	tata industrialis intere provided concernitio ensure a operation.		father internation have unable; take build rates, and unstructions into satisfactor.		latine inkonstan kun susun, samala a pospinen, eri prote kun susun.		Culture information from suscept, essentite conflicting and annurary of reach suscept spants(paraphreas, and cite.		Galactic Homodata Nano unactory, acono andrianos al socio monet, maintais die Nano al Mare, and Propenser, and Ale	
Writing Anchor 9:					Drea axideus It an Uarry a International teats in suggest analysis, statestime, and research.	Apply grade load wading standards, its literatures along entitional base the tool when density physicanas	doue existence from the experiment with reaction that is the second state of the secon	Apply grade loop reading stration in the literature, dots working a formal/dirac, and communities without how.	lines editors has likeny a international task in segmet earlyst, visctory, and research.	Apply grade local working chardwork in the resolution downloading meaning Pignodical, secondarding, and secondaries).
reflection & research					Apply goals land varied plantach is historic		Apply grade their realing checker is in lineary automation.		Apply park but suffy sentence to brown underse, integrating quartence with qualitation and pix.	

1	G	GED Mathematical Reasoning PLD Matrix	ather	natic	cal Re	ason	ing P		latrix		
Domain	Lev Below Limited/II	Level 1 Below Passing Limited/Inconsistent		Levo Passing (HS 1 Satisfe	Level 2 Passing (HS Equivalency) Satisfactory			Level 3 College Ready Strong			Level 4 College Ready + Credit Outstanding
1. Rational Numbers	Apply number properties involving multiples and factors Compute unit rates. Solve reat-world problems using rational numbers.		Apply number properties involving multiples and factors. Compute unit rates. Solve eavievid problems 5 solve retional numbers.	Perform computations with Earlier aconstitutions with Solve antimetic and . Solve antimetic and . proportions.	Determine when a numerical procression undefined. Solve numberse artimetic and real-world problems involving percents.	Use scale factors to determine the magnitude of a size actual drawners and scale	Determine when a numerical propression undefined. Seve arithmetic and read-world problems in volving ratios and proportions.				
			cimals, I line. r tessions o	Identify absolute value of a rational number as its distance from 0 on the number line Compute number line expressions with squares and square roots of positive,	Determine the distance between two rational numbers on the number line. on the number cal expressions with cubes and cube roots of positive, rational		Identify absolute value of a rational number as its distance from 0 on the number line. Simplify numerical expressions with rational exponents.	Determine the distance between two rational numbers on the number fine. Compute numercal expressions with squares and square roots of positive,			
	Compute the area and perimeter of triangles and rectangles.	Determine side lengths of triangles and rectangles when given area or perimeter.	Compute the area and C perimeter of triangles and p rectangles.		Compute the area and circumference of circles.	compute the area and perimeter of composite figures.					
			5 2 2	Use the Pythago rean theorem to determine unknown side sight for a right triangle. Compute volume and surface area of right prisms.	Determine side lengths of polygons when given area or perimetter. Compute volume and surface area of right pyramids and cones.	Determine the radius and diameter of circles when given area or circumference. Compute volume and surface area of cylinders.					
2. Measurement			Determine side lengths and D height of right prisms when h given volume or surface area.	Determine side lengths and height of rectangular prisms when given volume or surface	compute volume and surface area of composite figuras. Determine side lengths, radius, diameter, and height of right pyramids and cone when	compose voume and surrace compose voume and surrace area of sopherecurs. Determine radius, diameter, and height of cylinders, when given volume or surface area.		compute volume and surface area of cylinders. Determine radius, diameter, and height of cylinders, when given volume or surface area.		compute volume and surface area of composite figures.	
						Determine radius and diameter of spheres when given volume or surface area.					
	Represent, display, and interpret categorical data in tables and scatter plots.			Represent, dispiay, and interpret categorical data in dot plots, histograms, and box plots.	Use counting techniques to solve problems and determine combinations and permutations.		Use counting tech niques to solve problems and determine combinations and permutations.	betermine the probability of simple and compound events.		Use counting techniques to solve problems and determine combinations and permutations	Determine the probability of simple and compound events
	Evaluate linear expressions.	Write linear expressions to represent context	Write linear expressions to V represent context.	Write quadratic equations to represent context.	N C	Write rational expressions to represent context.					
	Eval uate polynomial expression s.		_	ui -	Compute with polynomials.		Factor polynomial expressions.		Compute with rational expressions.		
3. Expression and Equations	Solve real-world problems involving linear equations.	Solve algebraic and real-world problems in volving systems of equations.		Solve quad ratic equations in on evariable.	Eval uate polynomi al expression s	Evaluate rational expressions.		Solve quadratic equations in one variable.		Solve quadratic equations in on e variable.	
			20 ST	Solve linear inequalities in one variable.	Identify or graph the solution to a one variable linear inequality on a number line.	Solve real-world problems involving in equalities	Write linear inequalities to represent context.	solve linear inequalities in one i variable.	Solve real-world problems involving in equalities.	Write linear inequalities to represent context.	
	Represent or identifya function in a table or graph as having exactly one output for each input		Represent or identify a function in a table or graph as having exactly one output for each input.				Algebraic problem solving with graphs and functions.				
4. Graphs and		ād		Interpret unit rate as the slope Graph two-variable linear in a proportional relationship. equations	Graph two-variable linear equations	Use slope to identify parallel and perpendicular lines and to solve geometric problems.		Graph two-variable linear L equations. s	Use slope to identify parallel and perpendicular lines and to solve geometric problems.	Graph two-variable linear equations.	Use slope to identify parallel and perpendicular lines and to solve geometric problems.
Functions	Locate and plot points in the coordinate plane.	Sketch graphs and interpret key features of graphs and tables in terms of quantities.	Write the equation of a line with a given slope through a given point		Write the equation of a line passing through two given distinct points		Write the equation of a line with a given slope through a given point.				
	Evaluate linear and quadratic functions.		<u>u ç</u>	Evaluate linear and quadratic functions.	Compare two different linear or quadratic functions, each represented in different ways.	Compare two different proportional relationships, each represented in different	Compare two different linear or quadratic functions, each represented in different ways.			Compare two different linear or quadratic functions, each represented in different ways.	

Individualized Student Plans

	INF	IVIDUALIZED INSTRUCTIONAL STUDENT PLAN	
		ABE Mathematics: TABE Level A	
UDF	NT NAME:	LD.:	
URRE	NT TESTING INFORMAT Test Date:	TION: POST-TESTING INFORMATION: TABE Level: A	
	urrent Test Level: urrent Test Form: Scale Score: NRS Level:	CCR Level: E	
		LOW EMPHASIS MEDIUM EMPHASIS HIGH EMPHASIS	
DO	MAIN: Geometry 15%	SCORED PROFICIENCY: DNn-Profic Partial Prof Proficiency	iclency
		MASTERY DATE:	
NRS	Group:	Standard Description:	Mastery Date:
5/6	GEOMETRY: CONGRUENCE	Experiment with transformations in the plane. Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.	
5/6	GEOMETRY:	Prove theorems involving similarity.	
	SIMILARITY, RIGHT TRIANGLES, & TRIGONOMETRY	Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.	
5/6	GEOMETRY: GEOMETRIC MEASUREMENT & DIMENSION	Explain volume formulas and use them to solve problems. Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.	
5/6	GEOMETRY:	Apply geometric concepts in modeling situations.	
	MODELING WITH GEOMETRY	Apply concepts of density based on area and volume in modeling situations (e.g., persons per square mile, BTUs per cubic foot).	
DO	MAIN: Numbers & Qu	antity SCORED PROFICIENCY: DNn-Profici	encv
	13%	Partial Prof Proficiency MASTERY DATE:	iciency
NRS	Group:	Standard Description:	Mastery Date:
5/6	NUMBER & QUANTITY:	Extend the properties of exponents to rational exponents.	and the parter
	THE REAL NUMBER SYSTEM	Rewrite expressions involving radicals and rational exponents using the properties of exponents.	
5/6	NUMBER & QUANTITY: QUANTITIES	Reason quantitatively and use units to solve problems. Use units as a way to understand problems and to guide the solution of multi-step problems.	
		Choose and interpret units consistently in formulas. Choose and interpret the scale and the origin in graphs and data displays.	
		Choose a level of accuracy appropriate to limitations on measurement when reporting	

The Individualized Student Plans are learning management and tracking tools designed to help the teacher monitor student mastery of individual TABE skills or competencies that show partial or no mastery. These student plans are derived from the TABE Blueprints. The color coding on these student plans also show the emphasis level for each objective. There is an Individualized Student Plan for each subject area and for every level of the TABE Test.

Below are some highlights of the Individualized Student Plans:

- Derived from TABE 11&12 Test and Blueprints
- Test Levels (E, M, D & A)
- Emphasis Level
- Domain Percentage

- Standard Group
- Checklist Format
- Live Document
- Promotes Student Buy-In

Resource Activities

Resource activities are simplified content review for each ABE subject area that has three main components: (1) content, (2) practice, and (3) Answer Key with Additional Resources. Below are the highlights of the resource activities:

- Alignment to CCRS
- Alignment to Standardized Assessment
- Research Base
- Content Development
- Visual/Graphic Element
- Hands-On Approach
- Vocabulary Emphasis
- Reflective Prompts
- Developed by Florida Practitioners
- Simple yet versatile
- FREE and Reproducible

Components of the Resource Activities:

- Concept
- Practice Activities
- Answer Key

- Additional Resources
- References/Credits

The appendices of this activity book contains a sampler of resource activities.

ipdae 🤨 🚃	DP 144 PROFESSIONAL	Activity Resource	
1	on Polygons and 3-Dir	nensional Figures	Proyons are classified according to attributes. Attributes are properties of geometric figures such as numeer of sides or faces, number of congruent sides or faces, anyment of sides or faces, number of songruent lines. When anytes have the same measurement, they are cutical songruent angles. We describe alignment of sides or faces as either parallel or perpendicular. When lines are extended on and on, and do not meet. They are cutical parallel face. When lines are estanded and other and on, and do not meet. They are cutical parallel face. When lines are estanded and songre
Content Area: ABE Math	ematics		angle, they are called perpendicular lines. Below are examples of parallel and perpendicular lines.
Domain: Geometry			
Standard: CCR.MA. Analyze a	ABE.4.2.1 nd compare angles within shapes.		Paratel Lines Percendicular Lines
In this activity resource, we v common geometric figures in called a polygon . Polygons, figures formed by straight line formed by straight lines with and irregular polygons.		are crosed geometric rightes	ed 2-dimensional geometric figure.
Name of Polygon	Illustrated Example of Regular Polygon	Illustrated Example of Irregular Polygon	
Triangle			
Quadrilateral			
Pentagon	\bigcirc		
Hexagon	Exercises		
Institute for the Professional Develo Supported by the Plorida Department		Page 1 of 7	betradas for the Policitation Beginded by the Patricks

Applications of the Matrix

There are several applications of the matrices in planning, classroom instruction and assessment. Below are some examples:

1. Curriculum Development

Curriculum specialists can use the core matrices as a guide in developing their own district or school's curricula. It presents itself as an easier tool because it is already aligned with CCRS and the FLDOE Curriculum Frameworks for Adult Basic Education.

Specialists and teachers may also use the blank version of the core matrices as a template.

	Adult	asic Education Mathemat	ics Curriculum Matri	×		Adult Basic Edu	cation Mathematic	s Curriculum Matri	٢
omain	NRS Level 1 NRS Le	vel 2 NRS Level 3	NRS Level 4	NRS Level 5/6	Domain NRS Level 1	NRS Level 2	NRS Level 3	NRS Level 4	NRS Level 5/6
		Annual Annual Contractor Contract			1. Notifier and Specific reactions in the second se	and the second s	Annual Contents and a second s		
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	and the second second second				And	Milera, Marcala (2012), 2012	anter anter grant tanta	and the second s	And an average and an average and a second a
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-				A DECEMPTORY DESCRIPTION OF DESCRIPTIONO OF DESCRIPTIONO OF DESCRIPTIONO OF DESCRIPTIONO OF DESCRIPTIONO O	10.7 method			arnen. Ellenen - mensten Ballita	AND A COMPANY AN

2. Pacing Guide

Teachers and students can write dates on each matrix to mark the start dates as to when each content is to be covered. The entire matrix can then represent the entire mapping of concepts to be covered in chronological order. This way, the teacher can decide and prioritize cells to teach prior to the next scheduled post-test. See example below:



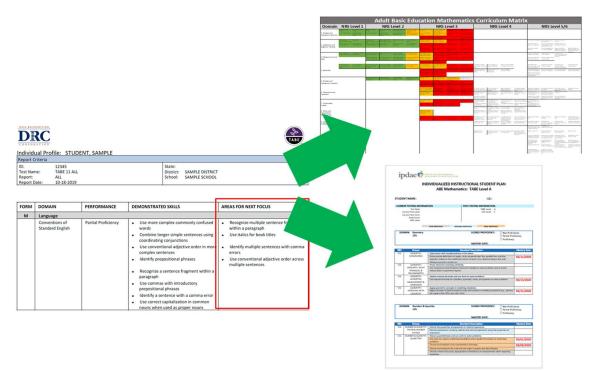
3. Resource Guide

Students or teachers can use the matrices as a resource guide by writing instructional materials/resources, websites, online/desktop programs, work/textbook pages, readings/articles, manipulatives, web apps, and/or applets. See example below:



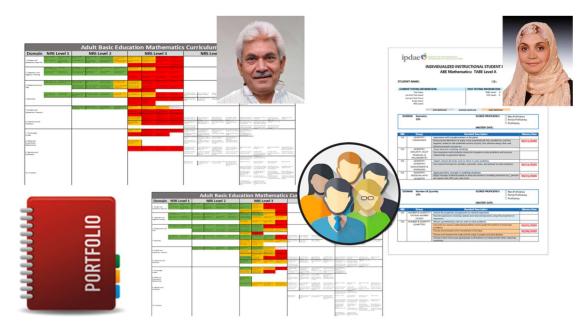
4. Targeting Instruction

Used together with the students TABE Individualized Score Report, teachers can map areas of strength and focus to the core matrix and/or Individualized Student Plan to set-up for targeted instruction.



5. Creating Individual or Group Profiles

Students or groups of students based on their mastery level and individual profile assessment report can use a plain version of the matrix and color groups of competencies based on mastery level. For example: Students can color nonproficient cells in red, partially proficient cells in yellow and proficient cells in green. Teachers may also see that including these profiles and Individualized Student Plans in the students' portfolios to capture the true picture of a student's progress.



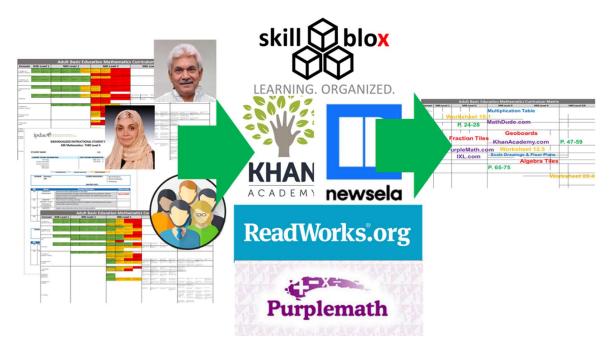
6. Data Chats with Student(s) or PLC Groups

Teachers may also find the student profiles and Individualized Student Plans useful when conducting data chats with individuals or groups of students. Teachers may also use class or group profiles when discussing data with their PLC's.



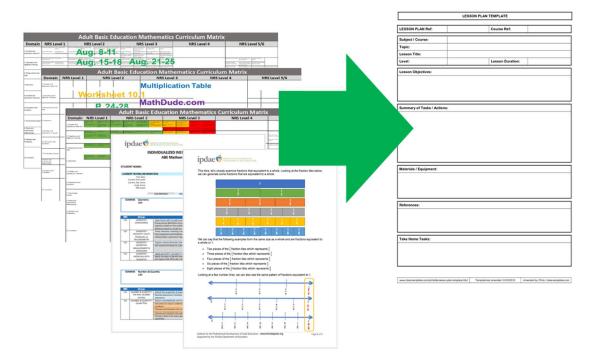
7. Tailoring Content, Resources and Activities

Individual or group profiles and ISP's may also help the teacher in selecting the appropriate content and resources from the Internet based on ability, weaknesses, learning style or grouping. To keep track of this, teachers may update the Resource Guide for new materials found.



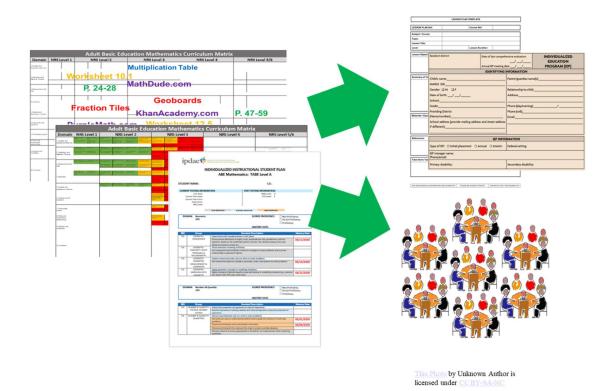
8. Lesson Planning

Teachers may use the Matrix Suite in planning lessons. They will have all that they need at their fingertips, if they include the student profiles. The result is a strongly differentiated lesson.



9. Differentiating Instruction and Grouping

Resource Guide, Student Profiles and ISP's combined together make an effective toolkit for developing IEP's and grouping students.



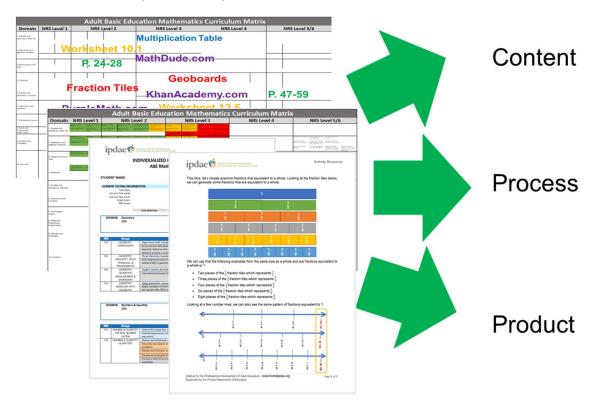
10. Grouping by Ability, Achievement or Learning Style

To be more purposeful in forming groups, the Resource Guide, Student Profiles and ISP's can be put to use whether groups are formed based on ability, achievement or learning style.



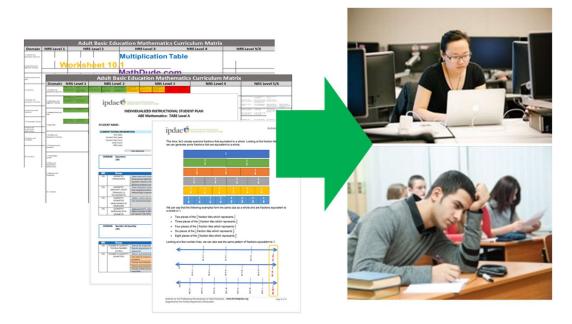
11. Complementing Other Differentiation Techniques

To be more purposeful in selecting a differentiation strategy, the Resource Guide, Student Profiles and ISP's can be used to determine whether differentiation will occur based on content, process, or product.



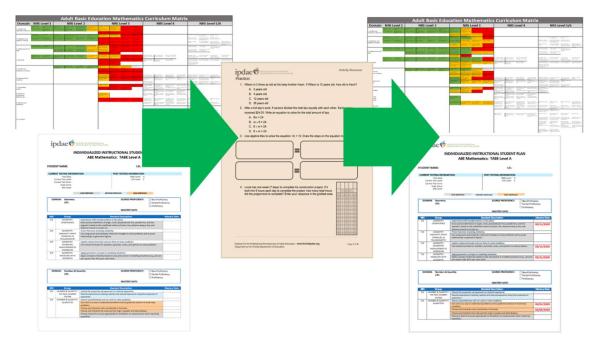
12. Designing and Managing Self-Paced or Individualized Learning

The Resource Guide, Student Profiles, Resource Activities and ISP's may be used to help teachers design or manage student activities and lessons on their respective online platforms (LMS). The Resource Activities may be used to reinforce or assess completed units, modules or activities.



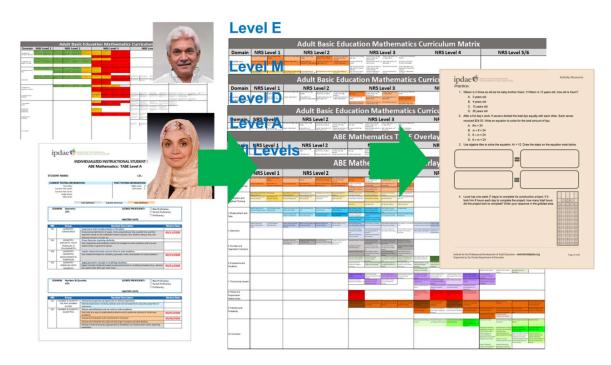
13. Assessment and Monitoring of Progress

Together with the student profiles and ISP's, teachers may use Resource Activities (Practice Exercises) as informal assessments to determine mastery or readiness.



14. Intervention or Remediation

Based on student profiles and ISP's, teachers may use the TABE Overlays to map medium and high emphasis items and remediate students on topics identified as areas of focus. This way, the teacher does not only see the proper sequence of topics, but they also can prioritize topics based on level of emphasis on the TABE 11/12 test. As an added step, the teacher may use the Resource Activity (Practice Exercise) to informally assess students against skills that were remediated.



15. IET, Post-Secondary Career Technical Programs and Career Pathways

Teachers may use the CTE Overlays and the Crosswalk to GED as tools to support their students in their pathways towards post-secondary education or career. CTE Overlays and Crosswalk to GED may also be used to support schools that implement IET Programs.



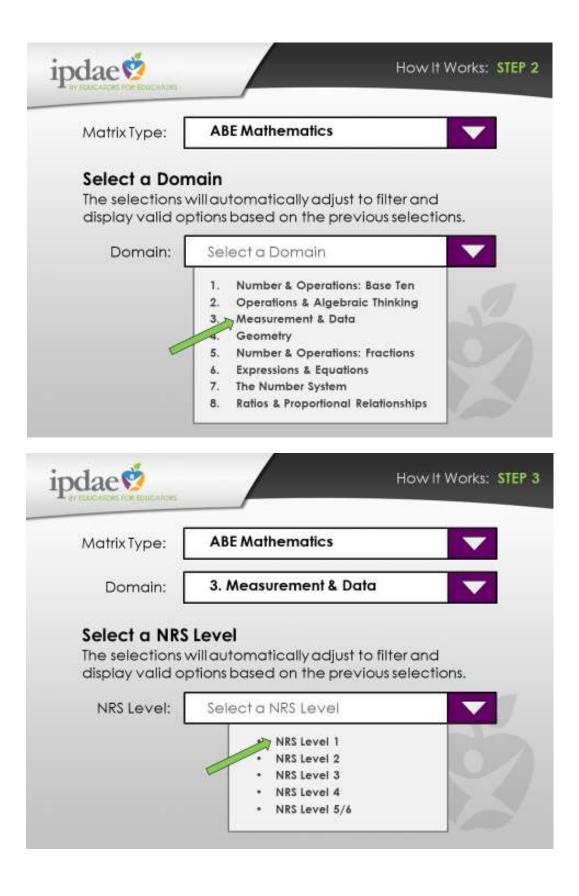
Accessing the Electronic Matrices

Below are the steps on how to access the electronic copies of the matrices and the resource activities from the IPDAE website, <u>www.floridaipdae.org</u>.

The Electronic Curriculum Matrix is an online lookup tool that dynamically returns information and resources that are correlated to adult education framework standards.

The Electronic Curriculum Matrix removes the hassle of having to figure out what aligns with what. It provides users with simple selectable criteria options that make finding results easy.

Select a Typ	e of Matrix	
	Curriculum Matrix allows the tone of the seven (7) matrix	
Matrix Type:	Select a Type of Matrix	
	ABE Mathematics	
	ABE Reading	
	A DE Languago Arte	
	ABE Language Arts	
4	GED Mathematics	-11-
٢		
۷	GED Mathematics	3

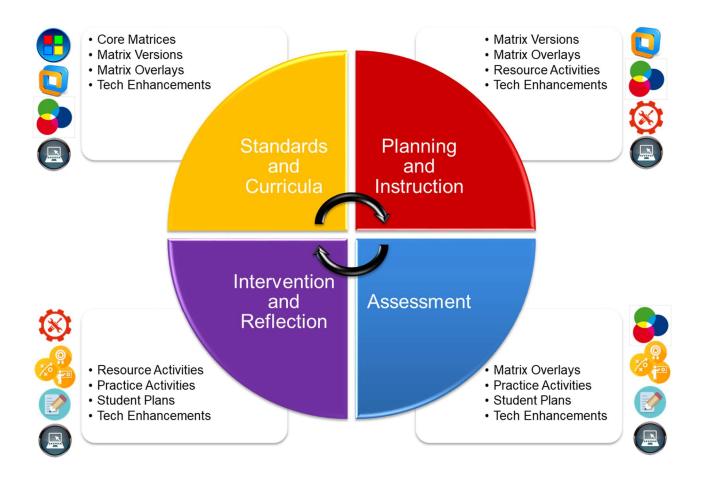


Domain: 3. Measurement & Data NRS Level: NRS Level 1 Search Results:	
Search Results:	
Results of information and resources are listed for down Standards Resources	nload.
	e Activity id

Generalized Framework for Implementation

Below is a generalized framework as to how you can incorporate the various matrix resources into your daily work starting from unpacking the standards, to planning, to classroom instruction, to assessment, to reflection and intervention.

Each icon in the four corners of the framework represents a matrix resource.



Appendix A: Resource Activity Sampler (Math)



Activity Resource

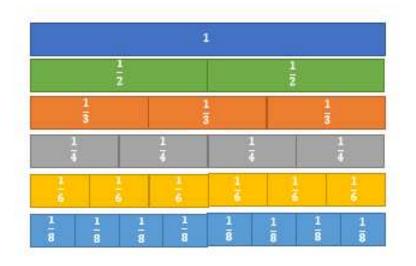


Visual Models of Equivalent Fractions

Content Area:	ABE Mathematics
Domain:	Number and Operations: Fractions
Standard:	CCR.MA.ABE.5.2.2.a Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.

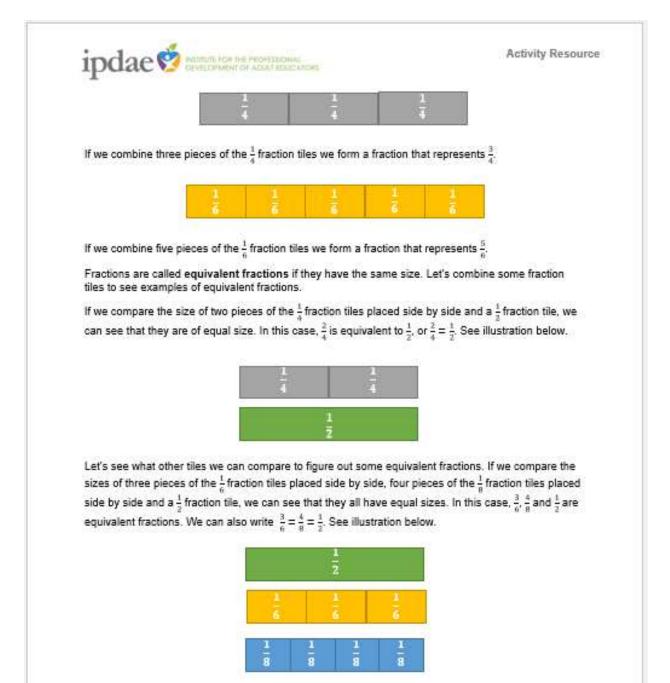
Concept:

Let's use fraction tiles to examine equivalent fractions. Study the fraction tiles below.



Notice the size of the tile decrease as the denominator increases in number. Let's combine fraction tiles of the same color and size and see what fractions we form.

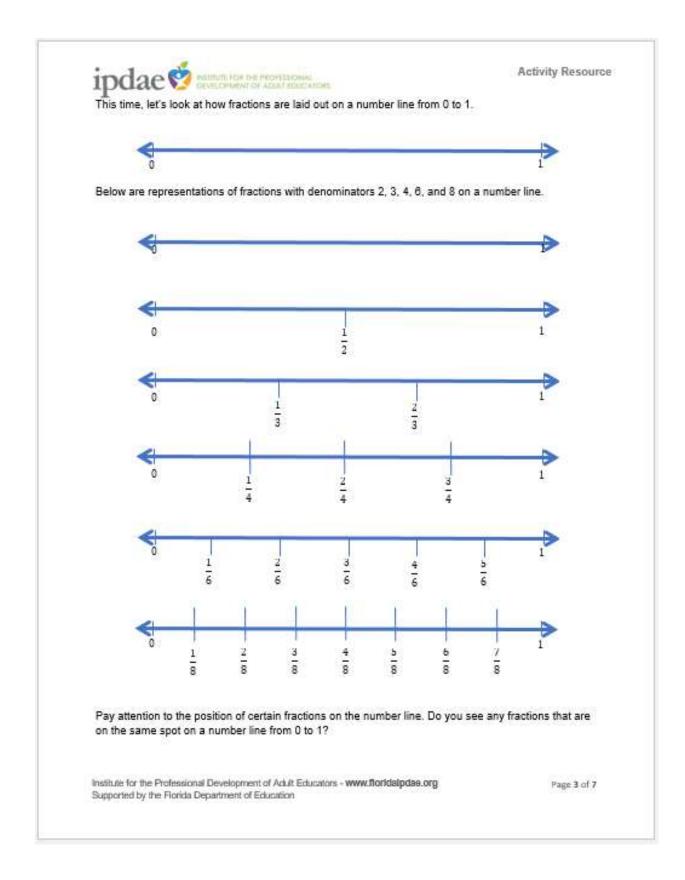


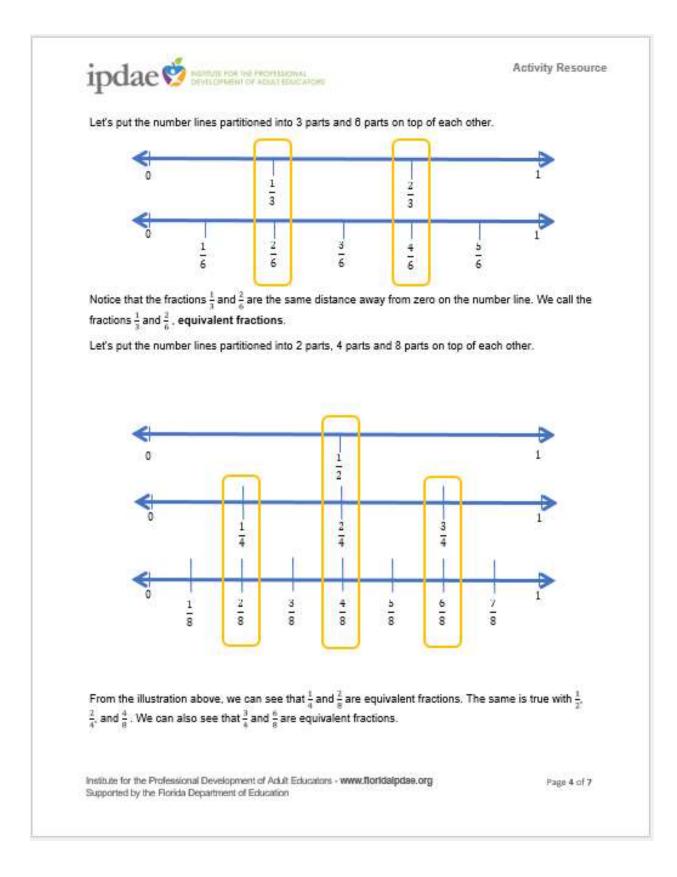


Use your fraction tiles to form other equivalent fractions. Write other examples of equivalent fractions in the area below.

Institute for the Professional Development of Adult Educators - www.floridalpdae.org Supported by the Florida Department of Education

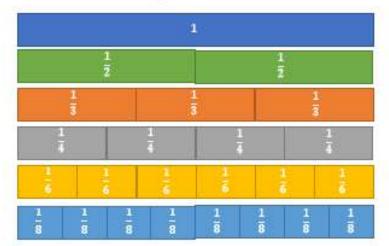
Page 2 of 7





Activity Resource

This time, let's closely examine fractions that equivalent to a whole. Looking at the fraction tiles below, we can generate some fractions that are equivalent to a whole.



We can say that the following examples form the same size as a whole and are fractions equivalent to a whole or 1.

Two pieces of the ¹/₂ fraction tiles which represents ²/₂

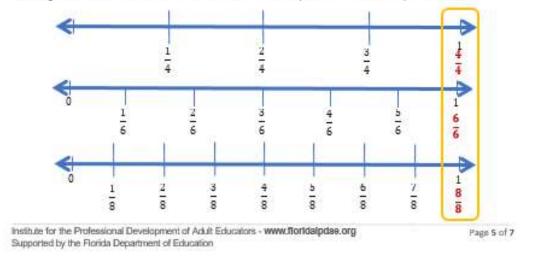
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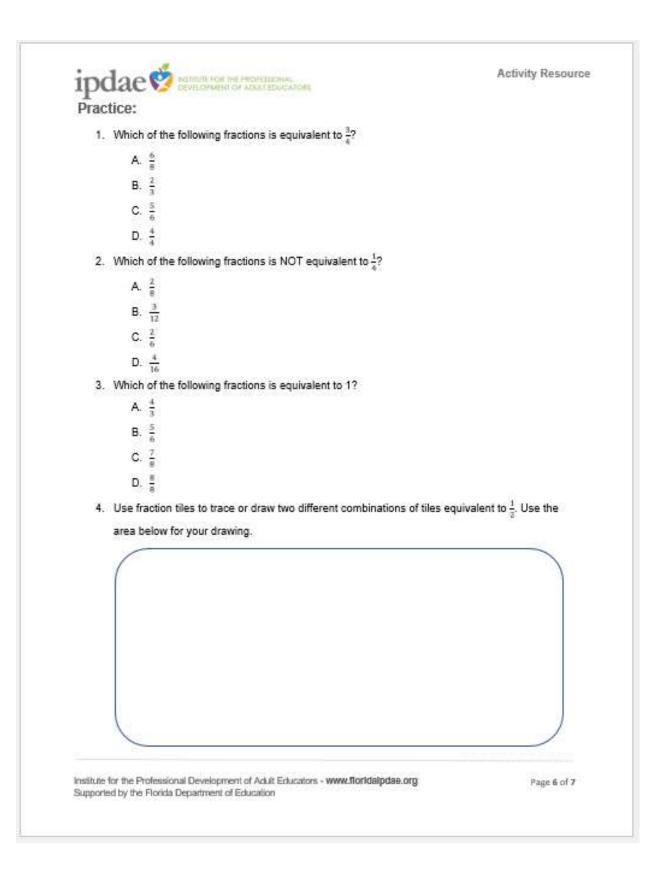
Three pieces of the ¹/₂ fraction tiles which represents ³/₂

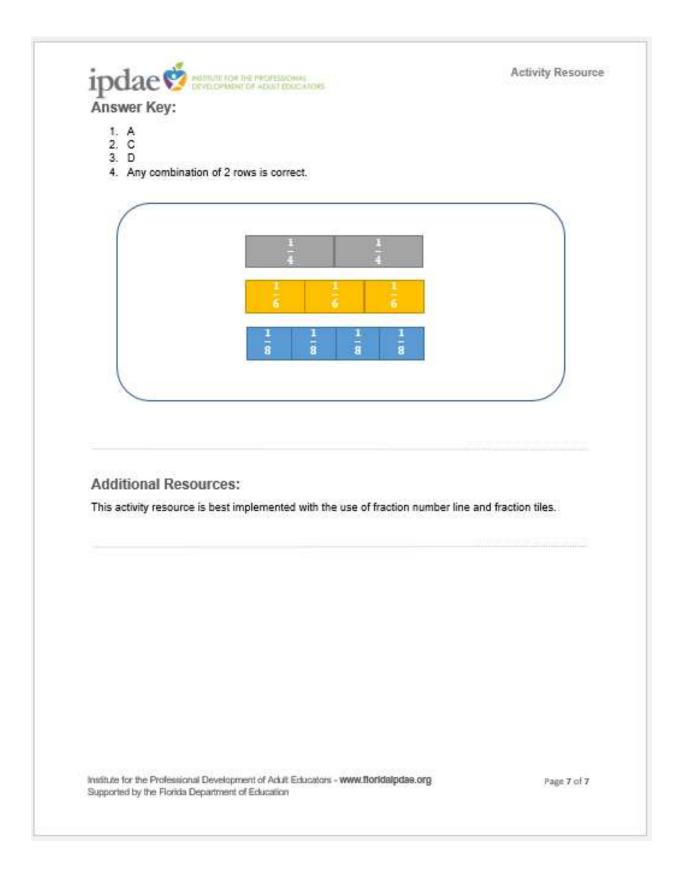
INSTITUTE FOR THE PROVALIGINAL DEVISIONMENT OF ADULT EDUCTION

- Four pieces of the ¹/₄ fraction tiles which represents ⁴/₄
- Six pieces of the ¹/₆ fraction tiles which represents ⁶/₆.
- Eight pieces of the ¹/_a fraction tiles which represents ⁸/_a

Looking at a few number lines, we can also see the same pattern of fractions equivalent to 1.







Appendix B: Individualized Student Plan (Math Level E)

	INIDA		TRUCTIONAL STUDENT		
	INDI	그는 것이 안 있는 것이 같은 것이 있는 것이 있는 것이 없다.	이 것을 잘 한다고 있다. 것은 것을 가지 않는 것, 것, 것 같아요. 것	LAN	
		ABE Mather	matics: TABE Level E		
UDE	NT NAME:		I.D.:		
			9.679% 		
JRRE	NT TESTING INFORMATIO Test Date:	N:	POST-TESTING INFORMATION: TABE Level: E		
c	urrent Test Level:		CCR Level; B		
C	urrent Test Form:		0.0000-0.000		
	Scale Score: NRS Level:				
	u	OW EMPHASIS M	EDILIM EMPHASIS		
DO	MAIN: Number & Opera	tions in Base Ten	SCORED PROFICIENCY:	TI Non Deale	ine cu
205	28%		soundo Phoridenets	Non-Profic Partial Prof	
				Proficiency	
			MASTERY DATE:		
IRS	Domain:		Standard Description:		Mastery Date
2	UNDERSTAND PLACE		digits of a three-digit number represent am		Environmenter (de la constante)
	VALUE		e.g., 706 equals 7 hundreds, 0 tens, and 6 or e thought of as a bundle of ten tens — calle		
			ars 100, 200, 300, 400, 500, 600, 700, 800, 9		
		and the second	even, eight, or nine hundreds (and 0 tens ar	ud O ornes).	
		Count within 1000; skip-count by 5s, 10s, and 100s.		_	
		Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.			
			umbers based on meanings of the hundreds	, tens, and ones	
-	USE PLACE VALUE		nbols to record the results of comparisons. umbers using strategies based on place valu	and some setting	
2	UNDERSTANDING & THE	of operations.	numbers come strategies cased on prace who	e and properties	
	PROPERTIES OF	Add and subtract within 1000, using concrete models or drawings and strategies based			
	OPERATIONS TO ADD & SUBTRACT.		of operations, and/or the relationship betw estrategy to a written method.	een addition	
	SUBIRALI.		or subtracting three-digit numbers, one add	is or subtracts	
			ens and tens, ones and ones; and sometimes	it is necessary	
2	USE PLACE VALUE	to compose or decompose Use place value understan	tiens or hundreds. ding to round whole numbers to the nearest	10 or 100	
atiet.	UNDERSTANDING &	Fluently add and subtract	within 1000 using strategies and algorithms	based on place	
	PROPERTIES OF OPERATIONS TO	value, properties of operat subtraction.	tions, and/or the relationship between addit	ion and	
	PERFORM MULTI-DIGIT		umbers by multiples of 10 in the range 10 -	90 (e.g., 9 x 80, 5	
	ABITHMETIC.	x 60) using strategies base	d on place value and properties of operation	z.	
		M-0-2000			
DO	MAIN: Operations & Alg	ebraic Thinking	SCORED PROFICIENCY:	□ Non-Profic	
	22%			Partial Prof Proficience	Construction of the second
			MASTERY DATE:	Proficiency	8
			MADIENT DATE:		
IRS	Catagory:		Standard Description:		Mastery Dat
2	REPRESENT & SOLVE		30 to solve one- and two-step word problem	the local cost of the local set	



INDIVIDUALIZED INSTRUCTIONAL STUDENT PLAN

ABE Mathematics: TABE Level E

J	ADDITION & SUBTRACTION	with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	
2	ADD & SUBTRACT WITH 20.	Fluently add and subtract within 20 using mental strategies. Know from memory all sums of two one-cligit numbers.	
2	REPRESENT & SOLVE PROBLEMS INVOLVING	interpret products of whole numbers, e.g., interpret 5 x 7 as the total number of objects in 5 groups of 7 objects each.	
	MULTIPLICATION & DIVISION.	interpret whole number quotients of whole numbers, e.g., interpret 55/8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each.	
		Multiply and divide within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	
		Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	
2	UNDERSTAND	Apply properties of operations as strategies to multiply and divide.	
	PROPERTIES OF	Understand and apply the commutative property of multiplication.	
	MULTIPLICATION & THE	Understand and apply the associative property of multiplication.	
RE	RELATIONSHIP BETWEEN	Understand and apply the distributive property.	
	MULTIPLICATION & DIVISION.	Understand division as an unknown-factor problem.	
2	MULTIPLY & DIVIDE WITHIN 200.	Fluently multiply and civide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8 x 5 = 40, one knows 40/ 5 = 8) or properties of operations.	
		Know from memory all products of two one-digit numbers.	
		Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the masonableness of answers using mental computation and estimation strategies including rounding.	
		identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.	

DOMAIN: Measurement & Dat 28%				Proficiency Il Proficiency ciency
		MASTERY DATE:		
IRS	Group:	Standard Description:	an in ann a	Mastery Date
2	MEASURE & ESTIMATE LENGTHS IN STANDARD UNITS.	Measure the length of an object twice, using length units of o two measurements; describe how the two measurements rel chosen.		
		Estimate lengths using units of inches, feet, centimeters, and	meters.	
		Measure to determine hew much longer one object is than a length difference in terms of a standard length unit.	nother, expressing th	e
2	RELATE ADDITION & SUBTRACTION TO LENGTH.	Represent whole numbers as lengths from 0 on a number line spaced points corresponding to the numbers 0, 1, 2,, and r sums and differences within 100 on a number line clagram.		
2	SOLVE PROBLEMS INVOLVING MEASUREMENT &	Tell and write time to the nearest minute and measure time i		
		Solve word problems involving addition and subtraction of the e.g., by representing the problem on a number line diagram.	me intervals in minut	es,
	ESTIMATION OF INTERVALS OF TIME,	Measure and estimate liquid volumes and masses of objects (grams (g), kilograms (kg), and kters (l).	using standard units	t



INDIVIDUALIZED INSTRUCTIONAL STUDENT PLAN

ABE Mathematics: TABE Level E

	UQUID VOLUMES, & MASSES OF DEJECTS	Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.	
2	REPRESENT & INTERPRET DATA	Oraw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories.	
		Solve simple put together, take-apart, and compare problems using information presented in a bar graph.	
		Oraw a scaled picture graph and a scaled bar graph to represent a data set with several categories.	
		Solve one- and two-step how many more and how many less problems using information presented in scaled bar graphs.	
	2	Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units - whole numbers, halves, or quarters.	
2	GEOMETRIC MEASUREMENT: UNDERSTAND CONCEPTS OF AREA & RELATE TO AREA OF MULTIPLICATION & ADDITION.	Recognize area as an attribute of plane figures and understand concepts of area measurement.	
		A plane figure which can be covered without gaps or overlaps by n unit squares is said to have an area of n square units.	
		Relate area to the operations of multiplication and addition,	
		Find the area of a rectangle with whole number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.	
		Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real world and mathematical problems, and represent whole- number products as rectangular areas in mathematical reasoning.	
		Use tilling to show in a concrete case that the area of a rectangle with whole number side lengths a and b + c is the sum of a x b and a x c. Use area models to represent the distributive property in mathematical reasoning.	
		Recognize area as additive. Find areas of rectilinear figures by decomposing them into non-overlapping rectangles and adding the areas of the non-overlapping parts, applying this technique to solve real world problems.	
1	GEOMETRIC MEASUREMENT: RECOGNIZE PERIMETER AS AN ATTRIBUTE OF PLANE HIGURES & DISTINGUISH BETWEEN LINEAR & AREA	Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.	

DOM	MAIN: Geometry 10%] Non-Profic] Partial Pro] Proficiency	ficiency
		MASTERY DATE:	1	1
NRS	Category:	Standard Description:	Sec. 18 - 1	Mastery Date:
2	REASON WITH SHAPES & THEIR ATTRIBUTES.	Recognize and draw shapes having specified attributes, such as a given nu angles or a given number of equal faces. Identify triangles, quadrilaterals, p hexagons, and cubes.		
		Understand that shapes in different categories (e.g., rhombuses, rectangle others) may share attributes (e.g., having four sides), and that the shared a can define a larger category (e.g., quadrilaterals).		
		Recognize rhombuses, rectangles, and squares as examples of quadrilatera draw examples of quadrilaterals that do not belong to any of these subcate		



INDIVIDUALIZED INSTRUCTIONAL STUDENT PLAN

ABE Mathematics: TABE Level E

Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal area, and describe the area of each part as 1/4 of the area of the shape.	
Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths.	
 Recognize that equal shares of identical wholes need not have the same shape.	

DOMAIN:	Number & Operations - Fractions	SCORED PROFICIENCY:	□ Non-Proficiency
	12%		D Partial Proficiency
			Proficiency
		MASTERY DATE:	

URS	Domain:	Standard Description:	Mastery Date
2	DEVELOP	Understanding & Representing Fractions	
	UNDERSTANDING OF FRACTIONS AS NUMBERS.	Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by a parts of size 1/b.	
		Understand a fraction as a number on the number line.	
		Represent fractions on a number line diagram.	
		Represent a fraction 1/b on a number line diagram by defining the interval from 0 to 1 as the hole and partitioning it into b equal parts. Recognize that each part has size 1/b and that the endpoint of the part based at 0 locates the number 1/b on the number line.	
		Represent a fraction a/b on a number line diagram by marking off a lengths 1/b from 0. Recognize that the resulting interval has size a/b and that its endpoint locates the number a/b on the number line.	
- 1		Equivalent Fractions	
		Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.	
		Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.	
		Recognize and generate simple equivalent fractions, e.g., 1/2 = 2/4, 4/6 2/3. Explain why the fractions are equivalent, e.g., by using a visual fraction model.	
		Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers.	
		Comparing Fractions	
		Compare two fractions with the same numerator or the same denominator by masoning about their size.	1
		Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with the symbols >; +, or <; and justify the conclusions, e.g., by using a visual fraction model.	