



INSTITUTE FOR THE PROFESSIONAL
DEVELOPMENT OF ADULT EDUCATORS

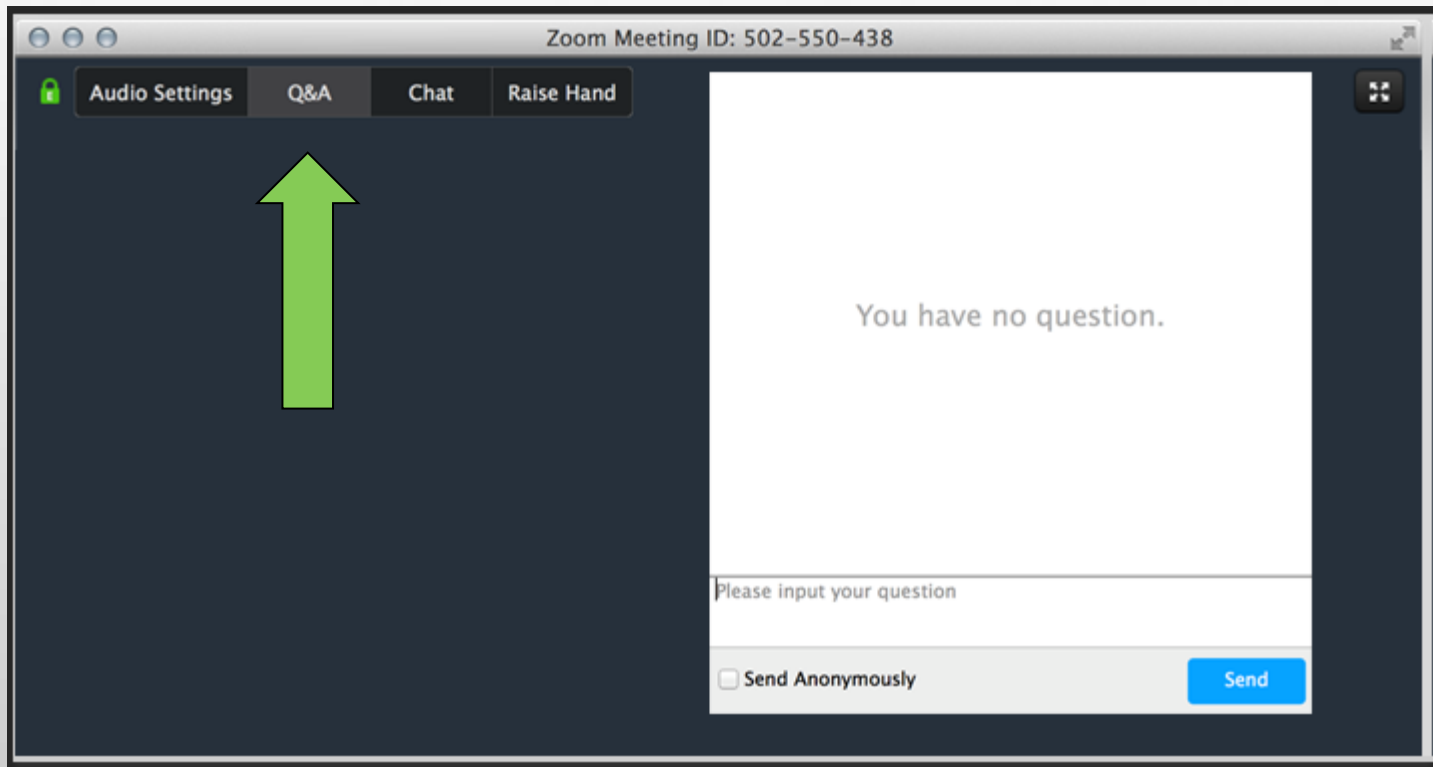
2018 Year In-Review and What's to Come

June 27, 2018

www.floridaipdae.org

This training event is supported with federal funds as appropriated to the Florida Department of Education, Division of Career and Adult Education for the provision of state leadership professional development activities.

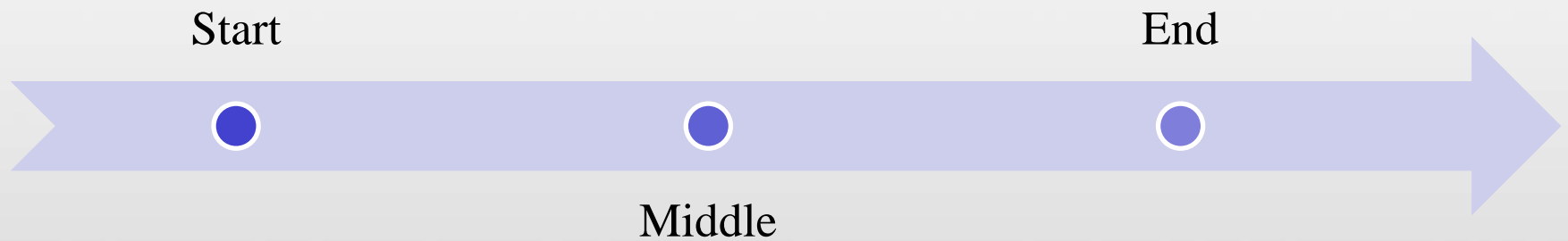
- If you have a question, please type it into the **Q&A** option.



- 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.

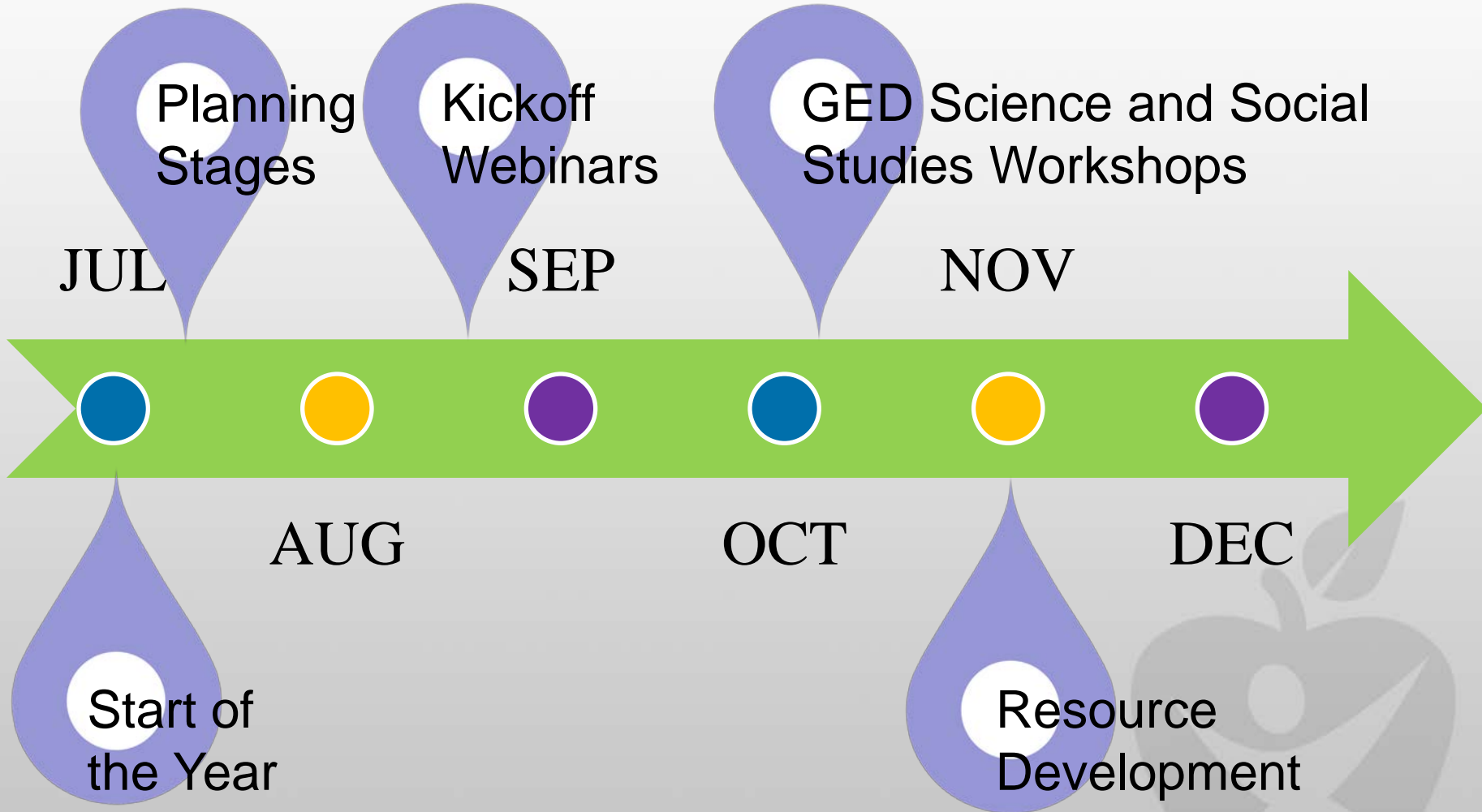
- I. Timeline at a Glance
- II. Face-to-Face Workshops
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- IV. New Resources
- V. The ABE Mathematics Curriculum Matrix
- VI. The IPDAE Website
- VII. A Look Ahead
- VIII. Evaluation

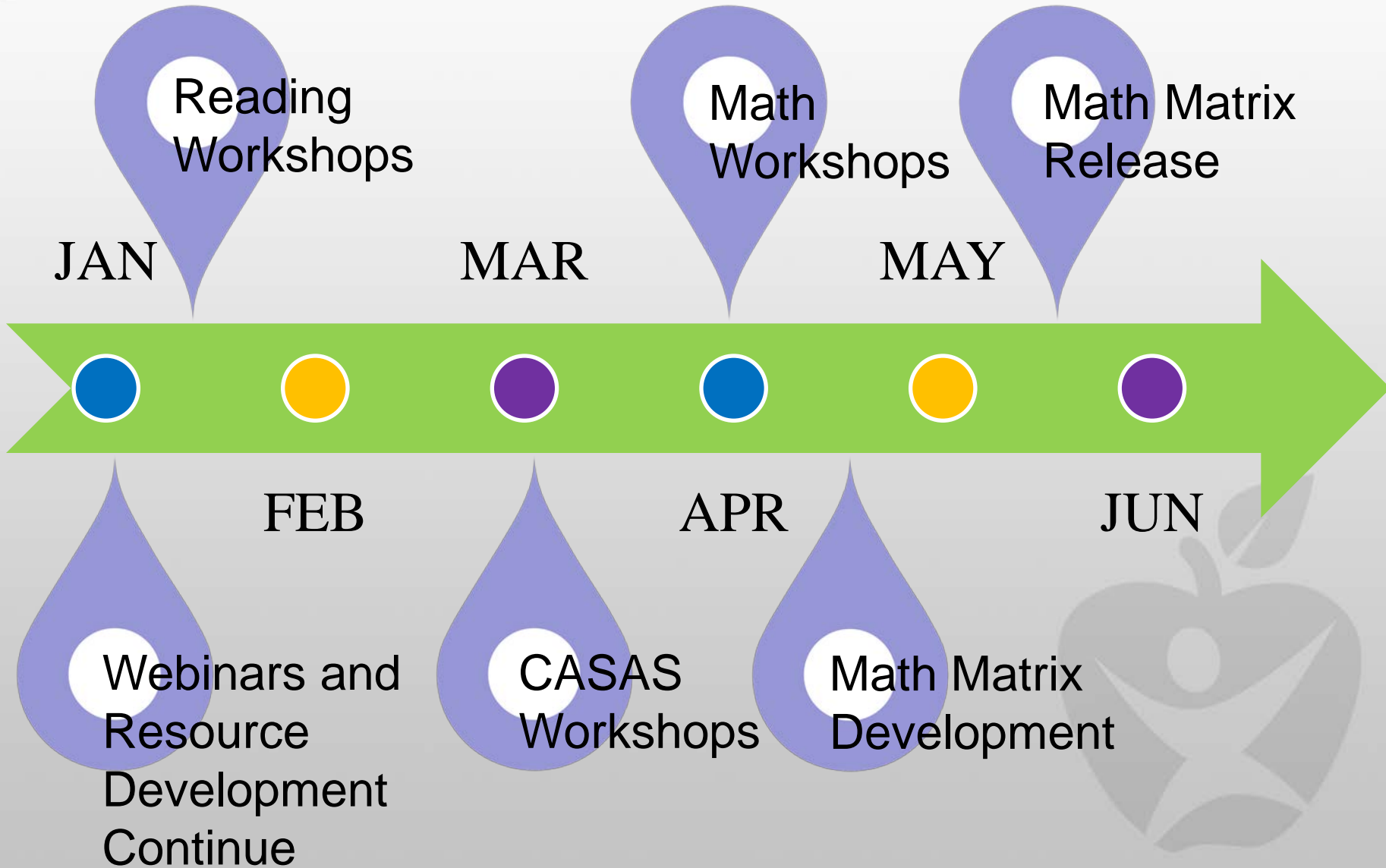




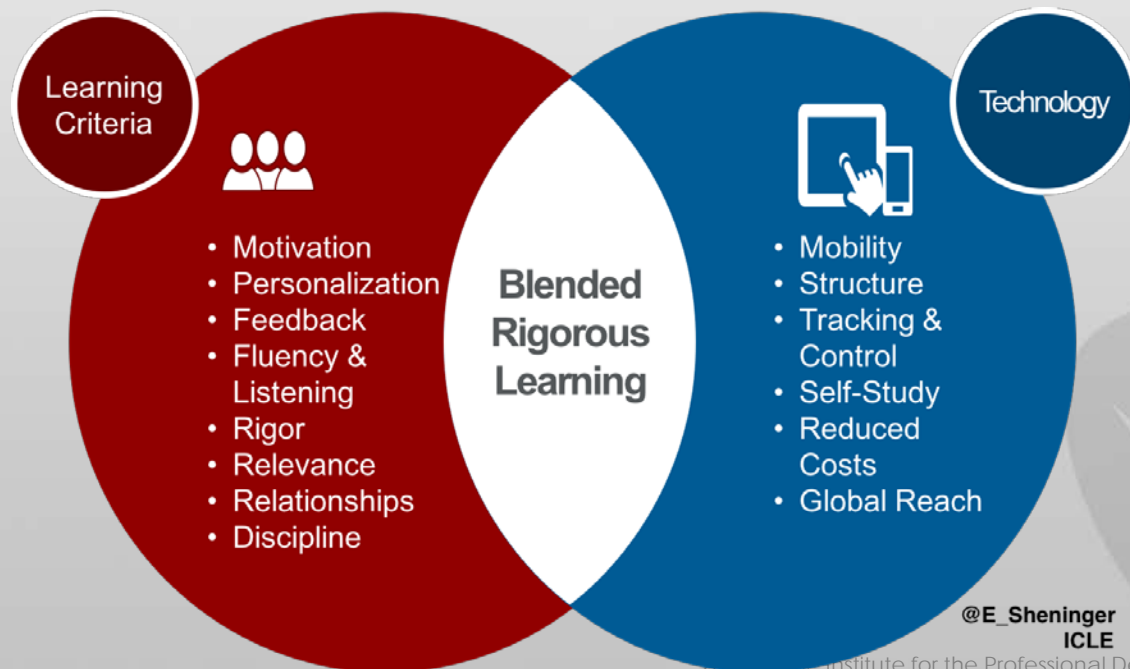
IPDAE TIMELINE AT A GLANCE







Throughout the year, IPDAE provided a blending learning approach through the delivery of face-to-face workshops, online webinars, e-trainings, resource guides, lesson plans, scripted PPT's and other applicable materials.



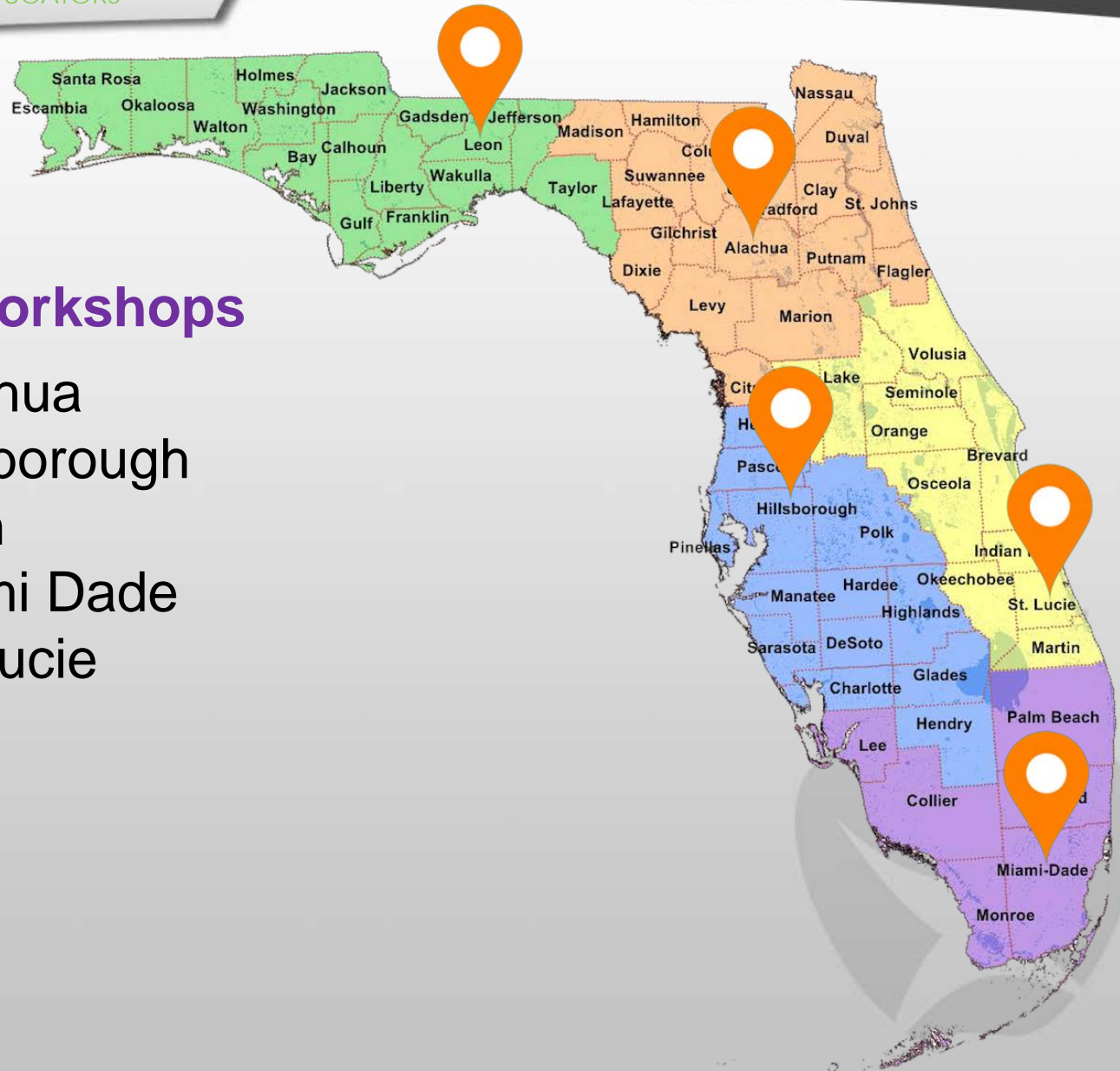
IPDAE FACE-TO-FACE WORKSHOPS





GED Science and Social Studies Workshop

- Brevard
- Broward
- Collier
- Hillsborough
- Leon
- Miami-Dade
- Pinellas
- Seminole



Reading Workshops

- Alachua
- Hillsborough
- Leon
- Miami Dade
- St. Lucie

CASAS Workshops

- Collier
- Duval
- Polk
- St. Lucie
- Washington



Mathematics Workshops

- Collier
- Hillsborough
- Palm Beach
- Pinellas
- Orange



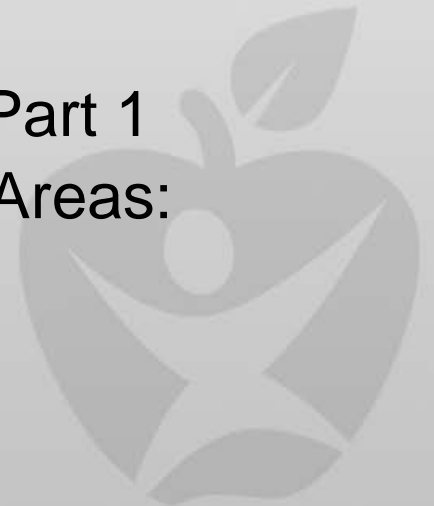


58 Workshops

1,600 Practitioners Trained



- Start Your School Year with Florida IPDAE
- The Science and Social Studies Challenge – Helping Students Build Knowledge about Enduring Issues
- Teaching with the Adult Learner in Mind
- Putting Manipulatives to Work
- Differentiating Instruction in Adult ESOL Classrooms
- All About Accommodations
- Active Learning in the Adult Classroom, Part 1
- Mathematics Reasoning Across Subject Areas:
Summarizing and Analyzing Data



- Active Learning in the Adult Classroom, Part 2
- AGE to Post-Secondary Transition
- Listening: Hitting the Target Using CASAS Instructional Resources
- Mining a GED Ready® Score Report
- GED Train-the-Trainer Debrief Webinar
- Training for Evidence-Based Literacy Strategies for Adult Educators: Follow-up session 1 – Intervention Practices
- Training for Evidence-Based Literacy Strategies for Adult Educators: Follow-up session 2 – Implementation of a Multi-strategy Comprehension Approach
- TABE Update for State Trainer



- Implementing IET in ESL Classrooms
- Preparing English Learners for Postsecondary Success
- TABE 11 & 12 Update
- Expanding and Extending Learning through a Community of Practice
- ABE Math Curriculum Matrix – Part 1
- ABE Math Curriculum Matrix – Part 2
- “Taking Care of Yourself: Making the Transition from Corrections to Work, Education & Daily Life” : An Overview
- 2018 Year In-Review and What’s to Come



25 Webinars Conducted





Scientific Inquire the GED® Science

Information, Resources Strategies for the Class

Bonnie Goonen – bgoonen@gmail.com
 Susan Pittman – skptvs@aol.com

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GED® Preparation Lesson Plan

Module: Science

Lesson Title: Superbugs Are Here!

Standards: GED® Preparation (Adult General Education)

Florida GED® Science Standards	Science Practices
<ul style="list-style-type: none"> Describe systems and functions of the human body systems and how to keep healthy. (L.1) <ul style="list-style-type: none"> Transmission of disease and pathogens (e.g., airborne, blood born), and the effects of disease or pathogens on populations (e.g., demographics change, extinction), and disease prevention methods (e.g., vaccination, sanitation). (L.1.d.) 	<ul style="list-style-type: none"> Comprehending Scientific Practices (SP.1) <ul style="list-style-type: none"> Understand and explain to presentations (SP.1.a) Reasoning from Data (SP.3) <ul style="list-style-type: none"> Reason from data or evidence to conclusion (SP.3.b) Evaluating Conclusions with Evidence (SP.4) <ul style="list-style-type: none"> Evaluate whether a conclusion is supported or challenged by data or evidence. (SP.4.a.)

Objectives of the Lesson

Students will:

- Identify the similarities and differences between bacteria and viruses
- Define antibiotic resistance and discuss the increases in superbugs in today's world
- Provide examples of the interaction between Earth's systems and infectious disease
- Understand chemical properties and reactions related to bacterial and viral infections

Materials

- Handout A: Bacteria and Virus – Let's Compare! (Template and Sample Answer Key)
- Handout B: Differences Between Bacteria and Viruses
- Handout C: A Biography of Alexander Fleming
- Handout D: Diseases Throughout the World
- Handout E: Let's Find Out!
- Handout F: Feeling Sick? Virus vs. Bacteria
- Chart paper/board and markers
- Computer with internet access and projector

Florida IPDAE's Lesson Plans for GED® Preparation Science

Listening Strategies for ESL

April 18, 2018

ABE Mathematics Curriculum Matrix

Domain	NRS Level 1	NRS Level 2	NRS Level 3	NRS Level 4
1. Number and Operations: Base Ten	Understand and explain to presentations (SP.1.a)	Reasoning from data or evidence to conclusion (SP.3.b)	Evaluating conclusions with evidence (SP.4.a)	Identify the similarities and differences between bacteria and viruses
2. Operations and Algebraic Thinking	Understand and explain to presentations (SP.1.a)	Reasoning from data or evidence to conclusion (SP.3.b)	Evaluating conclusions with evidence (SP.4.a)	Define antibiotic resistance and discuss the increases in superbugs in today's world
3. Measurement and Data	Understand and explain to presentations (SP.1.a)	Reasoning from data or evidence to conclusion (SP.3.b)	Evaluating conclusions with evidence (SP.4.a)	Provide examples of the interaction between Earth's systems and infectious disease
4. Geometry	Understand and explain to presentations (SP.1.a)	Reasoning from data or evidence to conclusion (SP.3.b)	Evaluating conclusions with evidence (SP.4.a)	Understand chemical properties and reactions related to bacterial and viral infections
5. Number and Operations: Fractions	Understand and explain to presentations (SP.1.a)	Reasoning from data or evidence to conclusion (SP.3.b)	Evaluating conclusions with evidence (SP.4.a)	
6. Expressions and Equations	Understand and explain to presentations (SP.1.a)	Reasoning from data or evidence to conclusion (SP.3.b)	Evaluating conclusions with evidence (SP.4.a)	
7. The Number System	Understand and explain to presentations (SP.1.a)	Reasoning from data or evidence to conclusion (SP.3.b)	Evaluating conclusions with evidence (SP.4.a)	
8. Applications and Proportional Reasoning	Understand and explain to presentations (SP.1.a)	Reasoning from data or evidence to conclusion (SP.3.b)	Evaluating conclusions with evidence (SP.4.a)	
9. Statistics and Probability	Understand and explain to presentations (SP.1.a)	Reasoning from data or evidence to conclusion (SP.3.b)	Evaluating conclusions with evidence (SP.4.a)	
10. Functions	Understand and explain to presentations (SP.1.a)	Reasoning from data or evidence to conclusion (SP.3.b)	Evaluating conclusions with evidence (SP.4.a)	

Activity
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NEW RESOURCES

New Resources:

- GED Science and Social Studies Workbook
- Strengthening Mathematics Foundations Workbook
- Literacy Strategies Workbook
- Webinar Activity Books
- Lesson Plans
- ABE Mathematics Curriculum Matrix



The ABE 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	Place Value of 3-Digit Numbers	Add and Subtract Round Whole Numbers to the Nearest Tens or Hundreds	Use Properties of Operations to Perform Multi-Digit Arithmetic	Generalize Understanding of Place Value	Read and Write Multi-Digit Numbers in Names and Expanded Form	Multiply 4-Digit Numbers by 1 to 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 or 100 to 3-Digit Numbers	Monthly Add and Subtract 10 or 100 to 3-Digit Numbers	Compare Any Multi-Digit Number	Round Multi-Digit Numbers to Any Place Value	Divide 4-Digit Numbers by 1-Digit Numbers	Read, Write, and Compare Decimals to Thousandths
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	Solve Multi-Step Problems Using Basic Operations	Interpret Multiplication as Comparison Statements	Interpret the Remainder in Problems	Multiply 1-Digit Numbers up to 100
	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	Check Answers Using Mental Computation and Estimation	Solve Problems Involving Multiplicative Comparisons	Read All Factors Pairs of Any 2-Digit Whole Number	Divide 4-Digit Numbers by 2-Digit Numbers Using Multiple Strategies	Prime and Composite Numbers 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, Mass, and Money Including Fractions	Solve Problems Involving Length, Time, Volume, Mass and Money Including Fractions	Read All Factors Pairs of Any 2-Digit Whole Number	Multiply 1-Digit Numbers up to 100	Identify Inexplicit Features of a Pattern from a Rule
		Represent Whole Number Lengths on a Number Line	Measuring and Estimating Areas of Plane Figures	Solve Problems Involving Perimeter of Polygons	Use Area to Model Addition and Multiplication	Measure and Sketch Angles in Whole Number Degrees	Solve Addition and Subtraction Problems for Unknown Angles	Organize Unit Fraction Data (e.g., 1/4, 1/8) in a dot plot	Prime and Composite Numbers within 100	Recognize Angles
4. Geometry	Analyze, Compare, and Classify 3-Dimensional Shapes	2- and 3-Dimensional Composite Shapes	Analyze, Draw and Compare Shapes Having Specified Attributes	Identify Common Polygons and 3-Dimensional Figures with Common Attributes	Partition Shapes into Parts with Equal Areas	Draw and Identify Points, Lines, Line Segments, and Rays	Solve Problems by Graphing Points on the Coordinate Plane	Draw Polygons in a Coordinate Plane	Solve Problems Involving Scale Drawings of Geometric Figures	Recognize Angles
			Represent Fractions with Decimals 2, 3, 4, 6, or 8 on a Number Line	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles
5. Number and Operations: Fractions			Represent Fractions with Decimals 2, 3, 4, 6, or 8 on a Number Line	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles
			Use Models to Illustrate Equivalent Fractions	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles
6. Expressions and Equations			Represent Fractions with Decimals 2, 3, 4, 6, or 8 on a Number Line	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles
			Use Models to Illustrate Equivalent Fractions	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles
7. The Number System			Represent Fractions with Decimals 2, 3, 4, 6, or 8 on a Number Line	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles
			Use Models to Illustrate Equivalent Fractions	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles
8. Ratios and Proportional Relationships			Represent Fractions with Decimals 2, 3, 4, 6, or 8 on a Number Line	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles
			Use Models to Illustrate Equivalent Fractions	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles
9. Statistics and Probability			Represent Fractions with Decimals 2, 3, 4, 6, or 8 on a Number Line	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles
			Use Models to Illustrate Equivalent Fractions	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles
10. Functions			Represent Fractions with Decimals 2, 3, 4, 6, or 8 on a Number Line	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles
			Use Models to Illustrate Equivalent Fractions	Recognize Equivalent Fractions	Use Visual Models to Represent Equivalent Fractions	Compare Fractions with the Same Numerator or Denominator	Generate Equivalent Fractions	Decompose Fractions as Sum of Fractions with the Same Denominator	Recognize Congruence and Similarity from Transformations	Apply Sum and Exterior Angles of Triangles and Three Circles

Learning Trajectories

Domain	NRS Level 1		NRS Level 2				NRS Level 3			
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	Generalize Understanding of Place Value	Read and Write Multi-Digit Numbers in Names and Expanded Form	Multiply 4-Digit Numbers by 1- to 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	Mentally Add and Subtract 10 or 100 to 3-Digit Numbers	Compare Any Multi-Digit Number	Round Multi-Digit Numbers to Any Place Value	Divide 4-Digit Numbers by 1-Digit Numbers	Read, Write, and Compare Decimals to Thousandths
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	Solve Multi-Step Problems Using Basic Operations	Interpret Multiplication as Comparison Statements	Interpret the Remainder in Problems	Multiples of 1-Digit Numbers Up to 100
	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	Check Answers Using Mental Computation and Estimation	Solve Problems Involving Multiplicative Comparisons	Find All Factor Pairs of Any 2-Digit Whole Number	Prime and Composite Numbers 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	Solve Problems in Length, Time, Volume, Mass and Money Including Fractions	Solve Problems in Length, Time, Volume, Mass and Money Including Decimals	Solve Problems Involving Information Presented in Line Plots	Recognize Angles
			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	Apply Area and Perimeter Formulas for Rectangles	Convert Measurements within a System	Organize Unit Fraction Data (1/2, 1/4, 1/8) in a Line Plot	Understand Concepts of Angle Measurement
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	Draw and Identify Points, Lines, Line Segments, and Rays	Solve Problems by Graphing Points on the Coordinate Plane	Solve Problems Involving Area, Surface Area, and Volume	Draw Polygons in a Coordinate Plane
							Draw and Identify Angles, Perpendicular and Parallel Lines	Classify 2-Dimensional Figures into Categories Based on Properties	Find Areas of Polygons by Composing or Decomposing	Find the Length of a Side with the Same First or Second Coordinate
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	Generate Equivalent Fractions	Compare Fractions Using Common Numerators or Denominators	Decompose Fractions as Sum of Fractions with the same Denominator	Decompose Fractions as Multiples of Unit Fractions
							Use Models to Illustrate Equivalent Fractions	Compare Fractions Using Benchmark Fractions Such as 1/2	Add and Subtract Mixed Numbers Using Equivalent Fractions	Multiply Fractions by a Whole Number
6. Expressions and Equations							Multiply and Divide Fractions	Solve Problems Involving Multiplication and Division of Fractions	Convert Fractions with Denominators 10 or 100 to Decimals	Solve Problems Involving Addition and Subtraction of Fractions
							Write and Evaluate Algebraic Expressions with Exponents	Identify and Generate Equivalent Algebraic Expressions	Use Substitution to Determine if an Equation or Inequality is True	Express One Quantity as the Dependent Variable of the Another Quantity
7. The Number System							Perform the Order of Operations on Algebraic Expressions	Reason and Solve One-variable Equations and Inequalities	Use Variables to Represent Two Related Quantities in a Problem	Use Graphs, Tables, and Equations to Show Variable Relationships
							Fluently Divide Multi-Digit Numbers	Fluently Add, Subtract, Multiply and Divide Multi-Digit Decimals	Find the Greatest Common Factor of Two Numbers ≤ 100	Apply Distributive Property to Generate Equivalent Expressions
							Find the Least Common Multiple of Two Numbers ≤ 12	Use Models to Illustrate, Interpret and Compute Quotients of Fractions	Solve Problems Involving Division of Fractions by Fractions	

High Impact Indicators.

Domain	NRS Level 1		NRS Level 2				NRS Level 3			
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	Generalize Understanding of Place Value	Read and Write Multi-Digit Numbers in Names and Expanded Form	Multiply 4-Digit Numbers by 1- to 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	Mentally Add and Subtract 10 or 100 to 3-Digit Numbers	Compare Any Multi-Digit Number	Round Multi-Digit Numbers to Any Place Value	Divide 4-Digit Numbers by 1-Digit Numbers	Read, Write, and Compare Decimals to Thousandths
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	Solve Multi-Step Problems Using Basic Operations	Interpret Multiplication as Comparison Statements	Interpret the Remainder in Problems	Multiples of 1-Digit Numbers Up to 100
	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	Check Answers Using Mental Computation and Estimation	Solve Problems Involving Multiplicative Comparisons	Find All Factor Pairs of Any 2-Digit Whole Number	Prime and Composite Numbers 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	Solve Problems in Length, Time, Volume, Mass and Money Including Fractions	Solve Problems Involving Time, Volume, Mass and Money Including Decimals	Solve Problems Involving Information Presented in Line Plots	Recognize Angles
			Represent Whole Number Lengths on a Number Line	Measuring and Estimating Areas of Plane Figures	Solve Problems Involving Perimeter of Polygons	Use Area to Model Addition and Multiplication	Apply Area and Perimeter Formulas for Rectangles	Convert Measurements within a System	Organize Unit Fraction Data ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$) in a Line Plot	Understand Concepts of Angle Measurement
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	Draw and Identify Points, Lines, Line segments, and Rays	Solve Problems by Graphing Points on the Coordinate Plane	Solve Problems Involving Area, Surface Area, and Volume	Draw Polygons in a Coordinate Plane
							Draw and Identify Angles, Perpendicular and Parallel Lines	Classify 2-Dimensional Figures into Categories Based on Properties	Find Areas of Polygons by Composing or Decomposing	Find the Length of a Side with the Same First or Second Coordinate
							Represent 3-Dimensional Figures Using Nets	Use Nets to Find the Surface Area of Figures		

Q.4: Calculate dimensions, perimeter, circumference, and area of two-dimensional figures

Q.5: Calculate dimensions, surface area, and volume of three-dimensional figures

Class Progress Tracking

Domain	NRS Level 1		NRS Level 2				NRS Level 3			
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	Generalize Understanding of Place Value	Read and Write Multi-Digit Numbers in Names and Expanded Form	Multiply 4-Digit Numbers by 1- to 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	Mentally Add and Subtract 10 or 100 to 3-Digit Numbers	Compare Any Multi-Digit Number	Round Multi-Digit Numbers to Any Place Value	Divide 4-Digit Numbers by 1-Digit Numbers	Read, Write, and Compare Decimals to Thousandths
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	Solve Multi-Step Problems Using Basic Operations	Interpret Multiplication as Comparison Statements	Interpret the Remainder in Problems	Multiples of 1-Digit Numbers Up to 100
	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	Check Answers Using Mental Computation and Estimation	Interpret Expressions without Evaluating Them	Find All Factor Pairs of Any 2-Digit Whole Number	Prime and Composite Numbers 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	Solve Problems in Length, Time, Volume, Mass and Money Including Fractions	Solve Problems in Length, Time, Volume, Mass and Money Including Decimals	Solve Problems Involving Information Presented in Line Plots	Recognize Angles
			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	Apply Area and Perimeter Formulas for Rectangles	Convert Measurements within a System	Organize Unit Fraction Data (1/2, 1/4, 3/8) in a Line Plot	Understand Concepts of Angle Measurement
4. Geometry	Analyze, Compare, and Classify 2-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	Draw and Identify Points, Lines, Line Segments, and Rays	Solve Problems by Graphing Points on the Coordinate Plane	Solve Problems Involving Area, Surface Area, and Volume	Draw Polygons in a Coordinate Plane
						Partition Shapes into Parts with Equal Areas	Draw and Identify Angles, Perpendicular and Parallel Lines	Classify 2-Dimensional Figures into Categories Based on Properties	Find Areas of Polygons by Composing or Decomposing	Find the Length of a Side with the Same First or Second Coordinate
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	Generate Equivalent Fractions	Compare Fractions Using Common Numerators or Denominators	Decompose Fractions as Sum of Fractions with the Same Denominator	Decompose Fractions as Multiples of Unit Fractions
						Compare Fractions Using Benchmark Fractions such as 1/2	Use Models to Illustrate Equivalent Fractions	Add and Subtract Mixed Numbers Using Equivalent Fractions	Convert Fractions with Denominators 10 or 100 to Decimals	Multiply Fractions by a Whole Number
6. Expressions and Equations						Multiply and Divide Fractions	Solve Problems Involving Multiplication and Division of Fractions	Write and Evaluate Algebraic Expressions with Exponents	Use Substitution to Determine if an Equation or Inequality is True	Express One Quantity as the Dependent Variable of the Another Quantity
						Identify and Generate Equivalent Algebraic Expressions	Reason and Solve One Variable Equations and Inequalities	Form the Order of Operations on Algebraic Expressions	Use Variables to Represent Two Related Quantities in a Problem	Use Graphs, Tables, and Equations to Know Variable Relationships
7. The Number System						Fluently Divide Multi-Digit Numbers	Fluently Add, Subtract, Multiply, and Divide Multi-Digit Decimals	Fluently Add, Subtract, Multiply, and Divide Multi-Digit Decimals	Apply and Explain Properties to Generate Equivalent Expressions	Apply and Explain Properties to Generate Equivalent Expressions
						Find the Least Common Multiple of Two Numbers	Use Models to Illustrate, Interpret and Compute Quotients of Fractions	Solve Problems Involving Division of Fractions by Fractions		

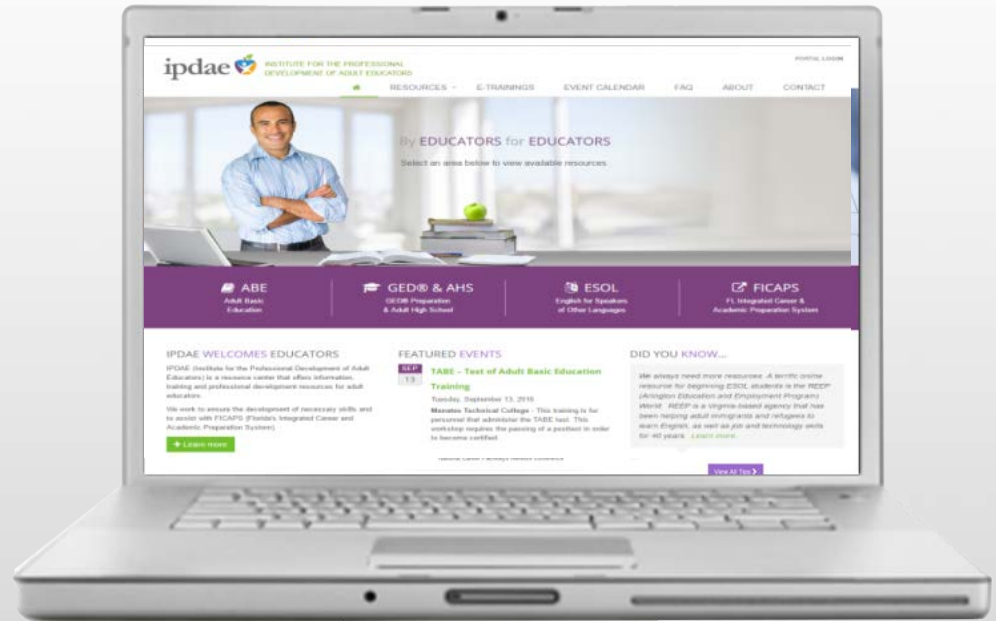
Student Learning Profiles for Differentiating Instruction and Scaffolding.

Domain	NRS Level 1		NRS Level 2				NRS Level 3			
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	Generalize Understanding of Place Value	Read and Write Multi-Digit Numbers in Names and Expanded Form	Multiply 4-Digit Numbers by 1- to 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	Mentally Add and Subtract 10 or 100 to 3-Digit Numbers	Compare Any Multi-Digit Number	Round Multi-Digit Numbers to Any Place Value	Divide 4-Digit Numbers by 1-Digit Numbers	Read, Write, and Compare Decimals to Thousandths
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	Solve Multi-Step Problems Using Basic Operations	Interpret Multiplication as Comparison Statements	Interpret the Remainder in Problems	Multiples of 1-Digit Numbers Up to 100
	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	Check Answers Using Mental Computation and Estimation	Solve Problems Involving Multiplicative Comparisons	Find All Factor Pairs of Any 2-Digit Whole Number	Prime and Composite Numbers 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	Solve Problems in Length, Time, Volume, Mass and Money Including Fractions	Solve Problems in Length, Time, Volume, Mass and Money Including Decimals	Solve Problems Involving Information Presented in Line Plots	Recognize Angles
			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	Apply Area and Perimeter Formulas for Rectangles	Convert Measurements within a System	Organize Unit Fraction Data (1/2, 1/4, 1/8) in a Line Plot	Understand Concepts of Angle Measurement
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	Draw and Identify Points, Lines, Line segments, and Rays	Solve Problems by Graphing Points on the Coordinate Plane	Solve Problems Involving Area, Surface Area, and Volume	Draw Polygons in a Coordinate Plane
							Draw and Identify Angles, Perpendicular and Parallel Lines	Classify 2-Dimensional Figures into Categories Based on Properties	Find Areas of Polygons by Composing or Decomposing	Find the Length of a Side with the Same First or Second Coordinate
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	Generate Equivalent Fractions	Compare Fractions Using Common Numerators or Denominators	Decompose Fractions as Sum of Fractions with the same Denominator	Decompose Fractions as Multiples of Unit Fractions
							Use Models to Illustrate Equivalent Fractions	Compare Fractions Using Benchmark Fractions Such as 1/2	Add and Subtract Mixed Numbers Using Equivalent Fractions	Multiply Fractions by a Whole Number
							Multiply and Divide Fractions	Solve Problems Involving Multiplication and Division of Fractions	Convert Fractions with Denominators 10 or 100 to Decimals	Solve Problems Involving Addition and Subtraction of Fractions

Individual Student Checklist

Domain	NRS Level 1		NRS Level 2				NRS Level 3			
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	Generalize Understanding of Place Value	Read and Write Multi-Digit Numbers in Names and Expanded Form	Multiply 4-Digit Numbers by 1- to 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	Mentally Add and Subtract 10 or 100 to 3-Digit Numbers	Compare Any Multi-Digit Number	Round Multi-Digit Numbers to Any Place Value	Divide 4-Digit Numbers by 1-Digit Numbers	Read, Write, and Compare Decimals to Thousandths
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	Solve Multi-Step Problems Using Basic Operations	Interpret Multiplication as Comparison Statements	Interpret the Remainder in Problems	Multiples of 1-Digit Numbers Up to 100
	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	Check Answers Using Mental Computation and Estimation	Solve Problems Involving Multiplicative Comparisons	Find All Factor Pairs of Any 2-Digit Whole Number	Prime and Composite Numbers 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	Solve Problems in Length, Time, Volume, Mass and Money Including Fractions	Solve Problems in Length, Time, Volume, Mass and Money Including Decimals	Solve Problems Involving Information Presented in Line Plots	Recognize Angles
			Represent Whole Number Lengths on a Number Line	Measure and Estimating Area of Plane Figures	Solve Problems Involving Perimeter of Polygons	Use Areas to Model Addition and Multiplication	Apply Area and Perimeter Formulas for Rectangles	Convert Measurements within a System	Organize Unit Fraction Data (1/2, 1/4, 1/8) in a Line Plot	Understand Concepts of Angle Measurement
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 Color Attributes	Partition Shapes into Parts with Equal Areas	Draw and Identify Points, Lines, Line Segments, and Rays	Solve Problems by Graphing Points on the Coordinate Plane	Solve Problems Involving Area, Surface Area, and Volume	Draw Polygons in a Coordinate Plane
							Draw and Identify Angles, Perpendicular and Parallel Lines	Classify 2-Dimensional Figures into Categories Based on Properties	Find Areas of Polygons by Composing or Decomposing	Find the Length of a Side with the Same First or Second Coordinate
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	Generate Equivalent Fractions	Compare Fractions Using Common Numerators or Denominator	Decompose Fractions as Sum of Fractions with the same Denominator	Decompose Fractions as Multiples of Unit Fractions
							Use Models to Illustrate Equivalent Fractions	Compare Fractions Using Benchmark Fractions Such as 1/2	Add and Subtract Mixed Numbers Using Equivalent Fractions	Multiply Fractions by a Whole Number
							Multiply and Divide Fractions	Solve Problems Involving Multiplication and Division of Fractions	Convert Fractions with Denominators 10 or 100 to Decimals	Solve Problems Involving Addition and Subtraction of Fractions

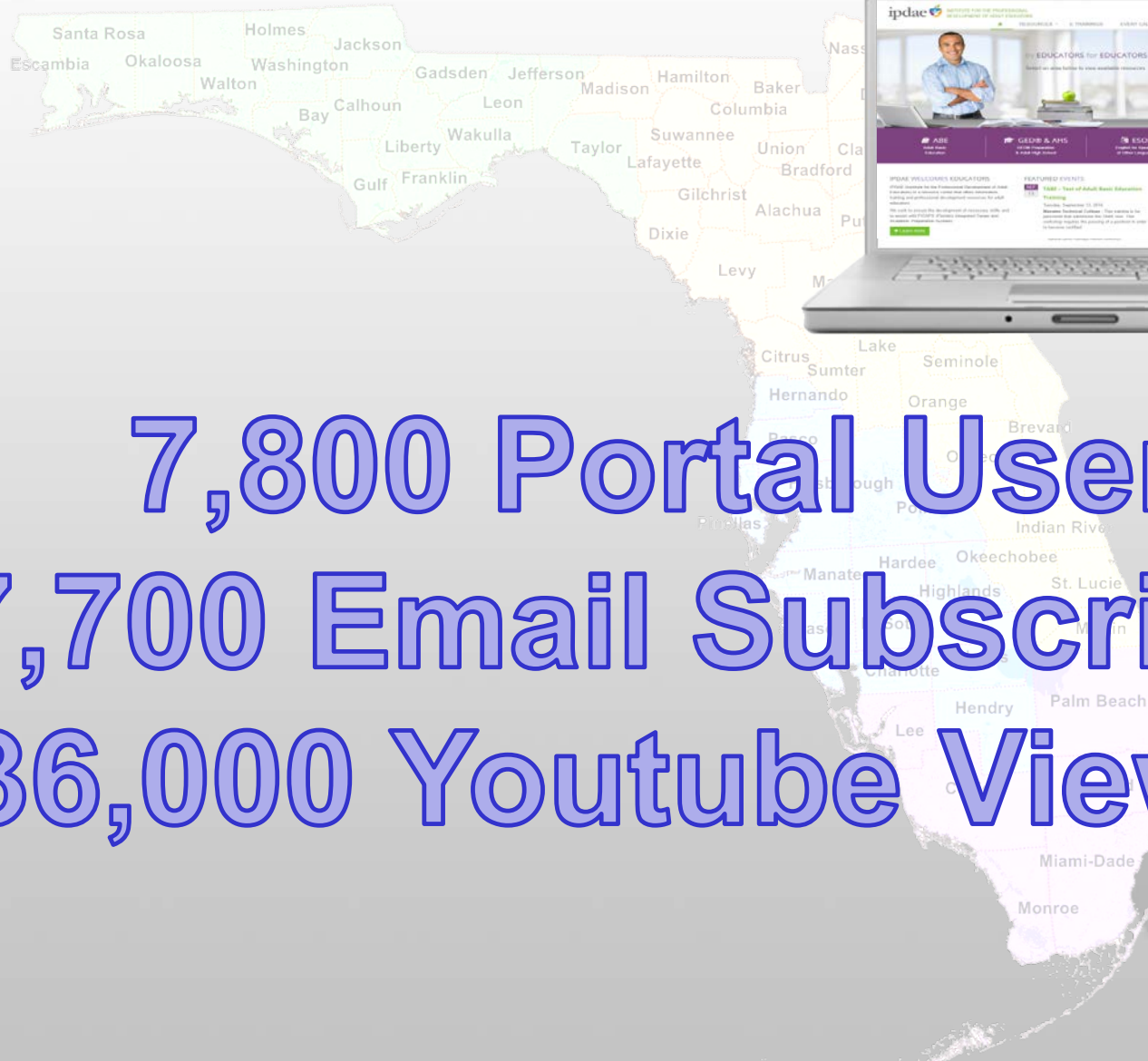




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Webinars

- Performance accountability measures, transitional services, standard-based instruction, TABE instructional strategies for 11/12, and promising practices to further enhance AE systems.

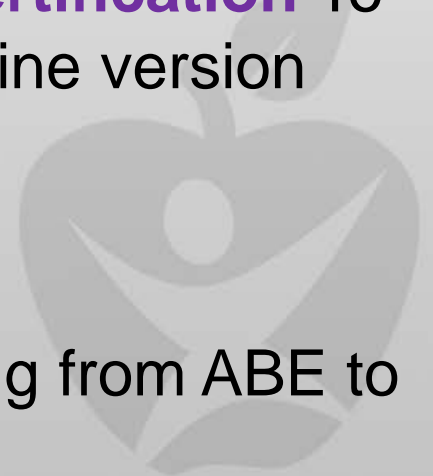
New Resources that will aid teachers and program effectiveness

- IET

TABE 11/12 Assessment Trainer On-line Certification To replace the Face-to Face trainings with an online version

- How to Administer
- Refresher
- How to Interpret the Scores

Building Capacity Workshops – Transitioning from ABE to GED® Prep, a Train-the-Trainer Initiative

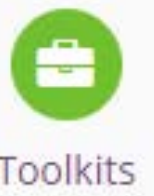
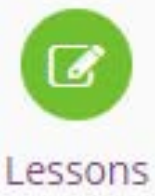


Coming Soon!

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 4 Digit Numbers Add and Subtract 4 Digit Numbers Compare 4 Digit Numbers	Place Value of 5 Digit Numbers Add and Subtract 5 Digit Numbers Compare 5 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	Multiplication Facts within 100 Distributive Property of Multiplication Division Facts within 100
3. Measurement and Data	Organize, Represent, and Interpret 1 Category Indirectly Measure Lengths through Iteration	Represent Lengths for Graphs Measure Lengths in Standard Units	Analyze and Generate Line Plots Measure Lengths in Standard Units	Solve Problems Involving Time, Volume, Mass and Money including Fractions Apply Area and Perimeter Formulas for Rectangles
4. Geometry	Analyze, Compare, and Classify 2 Dimensional Shapes	Classify 2 Dimensional Shapes Having Attributes	Identify Categories and Attributes of 3 Dimensional Solids	Partition Shapes into Parts with Equal Areas Draw and Identify Points, Lines, Line Segments, and Rays
5. Number and Operations: Fractions		Represent Fractions with Decimals 2, 3, 4, 6, or 10 on a Number Line	Use Equivalent Fractions to Add and Subtract Fractions with the Same Denominator	Generate Equivalent Fractions Compare Fractions with Common Denominators Use Models to Illustrate Equivalent Fractions
6. Expressions and Equations			Write and Evaluate Algebraic Expressions with Exponents	Identify and Generate Equivalent Algebraic Expressions Reason and Solve Equations and Inequalities
7. The Number System			Fluently Divide Multi-Digit Numbers	Fluently Add, Subtract, Multiply, and Divide Multi-Digit Numbers
8. Ratios and Proportional Relationships				Use Models to Represent and Compute Ratios of Fractions
9. Statistics and Probability				
10. Functions				

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.





**From the IPDAE Team,
we thank you!**





IPDAE would like to know what you think!
Please complete this quick survey.

