

Everyday Math Assessment Tools and Opportunities for Pre-Kindergarten

Guidepost 1						
Everyday Math Goals	Indiana Foundations*	Strand	Routine	Minute Math	Other Centers Or Games	Teacher's Guide to Activities
Recognizes numbers 0-5	1. Number Relationship ~Progress from inventive to accurate counting and recognizing number symbols with the appropriate amounts.	Numeration	Number of the day p.10 Building Monthly Calendar p. 30	p. 7, 12, 49,79	<i>Math in Motion</i> (Jack Hartman) <i>Chicka, Chicka, 1,2,3</i> Bill Martin Jr.	Egg Carton Math p. 29 Pattern Block Number Cards p. 36
Performs rote counting 1 to 5	1.Number Relationships ~Use the names for numbers.	Numeration	Number of the day p.10 Building the monthly calendar p. 30	p. 3, 4, 8, 25	The book & CD of <i>Ten in the Bed</i> <i>1,2 Buckle My Shoe</i>	Listen and Count p.24 Rings and Bracelets p. 35 Pattern Block Number Cards p. 36 How Many Children are Here Today? p. 37
Counts 1 to 5 objects, actions, or sounds Forms groups of 0 – 5 objects	1. Number Relationships ~Demonstrate number sense using number collections or sets of objects. 2.Computation Count objects, sort, organize, and compare groups of objects.	Numeration	Snack Time Routine p. 22	p. 10, 13, 15, 18, 19, 20, 21	<i>Ants Go Marching</i> with number & amount <i>The Very Hungry Caterpillar & 1,2,3 to the Zoo</i> Eric Carle <i>Seven Little Monsters</i> Maurice Sendak	Big and Little Worms p. 18 Simon Says p. 23 Listen and Count p. 24 Eating to Zero p. 25 Egg Carton Math p. 29 Pattern Block Number Cards p. 36

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Guidepost 1 (Cont'd)						
Everyday Math Goals	Indiana Foundations*	Strand	Routine	Minute Math	Centers Or Games	Teacher's Guide to Activities
Arranges groups of objects in one-to-one correspondence.	2.Computation ~Experience one-to-one correspondence.	Numeration	Snack Time Routine p. 22			Pattern Block Number Cards p. 36 Rings and Bracelets p. 35
Identifies and describes similarities and differences.	3. Algebra & Functions ~Explore attributes of objects and begin to sort by similar traits such as shape, color, size, or function.	Patterns and Functions	Weather Observation p. 26 Building the Monthly Calendar p. 30	p. 26, 51, 53		Pattern Blocks p. 15 Patterns in a Rhyme p. 16 If You Have... p. 34
Locates objects using position and direction words, such as next, to, or behind.	4. Geometry ~Use words that indicate where things are in space.	Geometry		p. 61, 72	<i>Inside, Outside, Upside Down</i> Stan & Jan Berenstain <i>Outside, Inside</i> C. Crimi	Where Oh Where Has my Little Dog Gone? p. 17
Explores the purpose and the use of clocks and calendars.	5.Measurement ~Recognize time as a sequence of events that relate to daily life. ~Show and increasing awareness of conventional measurement tools and methods.	Measurement	Building the Monthly Calendar p. 30 Job Chart p. 20	p. 83	<i>The Grouchy Ladybug</i> Eric Carle <i>Clocks and More Clocks</i> Pat Hutchins	
Collects data about people, objects, and events.	6. Problem Solving ~Groups interesting objects, names or describe groups found in the environment, and label or describe those collections. ~Represent the data in a variety of ways.	Data and Chance	Weather Observation p. 26, 27		<i>The Best Vacation Ever</i> Stuart Murphey <i>Caps for Sale</i> Esphyr Slovodkin <i>The Doorbell Rang</i> Pat Hutchins	Age Change p. 32

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Guidepost 2						
Everyday Math Goals	Indiana Foundations*	Strand	Routine	Minute Math	Other Centers Or Games	Teacher's Guide to Activities
Recognize numbers 0-10	1. Number Sense ~Use the names for numbers.	Numeration	Growing Number line p.10 Calendar p.30	p. 7, 12, 44, 49, 79	<i>1,2,3 to the Zoo</i> Eric Carle <i>Moja Means One; a counting book</i> Muriel L. Feelings	Number Sculptures p. 44 Number Cards p. 49 Quick Count p. 50 Simple Hopscotch p. 64
Performs rote counting 1 to 10	1. Number Sense ~Use the names for numbers.	Numeration	Growing Number line p.10 Calendar (Counting Days) p.30	p. 3, 4, 8, 25	Spin Number Monster Squeeze	Five Hungry Frogs p. 43 Bears in Bed p. 45 Number Cards p. 49 Matching Cups p. 65
Sorts and classifies objects by their attributes	3. Algebra and Functions ~Explore attributes of objects and begin to sort by similar traits such as shape, color, size, or function. 4. Geometry ~Notice differences and begin to identify, describe, model, draw, and classify geometric shapes.	Algebra Geometry			(Patterned shapes on the calendar)	Attribute blocks p. 51 Things that Float or Sink p. 62
Recognizes and copies patterns	3. Algebra and Functions ~Reproduce patterns of sounds and movements. ~Recognize simple patterns of concrete objects. ~Reproduce simple patterns of concrete objects.	Algebra		p. 15	(color patterns on calendar) <i>Jump Frog Jump</i> <i>Five Green and Speckled Frogs</i> <i>Five Little Ducks</i> <i>Beep, Beep, Vroom, Vroom</i> Stuart Murphy	Pattern blocks p. 15 Patterns in rhyme p. 16 Pattern Block Number Cards p. 36 Pattern Fences p. 47 Counting Patterns p. 52 Patterns All around p. 53

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Guidepost 2 (Continued)						
Everyday Math Goals	Indiana Foundations*	Strand	Routine	Minute Math	Other Centers Or Games	Teacher's Guide to Activities
Compares objects by size, weight, height, and length, using comparison words	5.Measurement ~Estimate quantity, distance, weight, and length of familiar objects. ~Use familiar objects as measuring devices. ~Use appropriate language to discuss activity. ~Become aware of and use the conventional language of measurement. ~Show an increasing awareness of conventional measurement tools and methods.	Measurement	Weather Observation Routine p.26 Recording Daily Temperature p.72	p. 51	<i>Inch by Inch</i> Leo Lionni <i>Is it Larger?</i> <i>Is it Smaller?</i> Tana Hoban <i>Big Dog, Little Dog: A Bedtime Story</i> Philip Eastman <i>The Best Bug Parade</i> Stuart Murphy	Partner Match p. 11 Measuring Heights of Children p. 12 Building and Measuring in the Block Center p. 13 Big and Little Worms p.18 Block Races p. 55 Comparing Lengths p. 60 Sand and Water Play p. 61 Rocker Balance p. 63

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Guidepost 3						
Everyday Math Goals	Indiana Foundations*	Strand	Routine	Minute Math	Other Centers Or Games	Teacher's Guide to Activities
Count 1 to 10 objects, actions or sounds.	1. Number Sense ~Counts series of objects in a group and tells the number. ~Use the names for numbers. ~Demonstrate number sense using number collections or sets of objects.	Numeration	Number of the Day Attendance Snack Time Routine	p. 10, 13, 16, 18, 19, 20, 21	<i>10 in the Bed</i>	Touch and Feel Number Cards p. 80 Spin a number board game p. 80 Grab Game p. 82 Snacking subtraction p. 90 Concentration p. 91 One More p. 94
Forms groups of 0 to 10 objects	1. Number Sense ~Count series of objects in a group and tells the number. ~Progress from inventive to accurate counting and recognizing and matching number symbols with the appropriate amounts.	Numeration	Snack Time Routine		<i>Ten Black Dots</i> Donald Crews	Snacking Subtraction p. 90 One More p. 94
Matches correct number to groups of 0-10 objects	1. Number Sense ~Demonstrate number sense using number collections or sets of objects. ~Progress from inventive to accurate counting and recognizing and matching number symbols with the appropriate amounts.	Numeration		p. 44	<i>Ten, Nine, Eight</i> Molly Garrett Bang	Concentration p. 91
Compares groups of objects to determine more, less, or same/equal to.	1. Number Sense ~Have knowledge of quantity and some of the comparisons of quantity.	Numeration		93		Finger Show Game p. 81 Grab Game p. 82 Building Towers in the Block Corner p. 85 Three-Finger Handprints p. 92 Making Four p. 93 One More p. 94

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Guidepost 3 (Continued)						
Everyday Math Goals	Indiana Foundations*	Strand	Routine	Minute Math	Other Centers Or Games	Teacher's Guide to Activities
Identifies and describes 2-dimensional shapes.	3. Algebra and Functions ~Explores attributes of objects and begin to sort by similar traits such as shape, color, size or function. ~Identify shapes.	Geometry		p. 39, 61, 96, 234	<i>The Shape of Things</i> Dayle Ann Dodds	Shape Template p. 75 Block Stamp Art p. 79 Shapes By Feel p. 83 Shape Designs p. 84

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Guidepost 4						
Everyday Math Goals	Indiana Foundations*	Strand	Routine	Minute Math	Centers Or Games	Teacher's Guide to Activities
Performs rote counting 1-15	1.Number Relationships ~Use the names for numbers.	Numeration	Number of the day p.10 Building the monthly calendar p. 30 Attendance p. 70	p. 87, 111, 127	<i>10 Little Indians</i> <i>10 Bears in the Bed</i>	
Participates in solving simple addition and subtraction number stories.	2. Computation ~Model situations that involve the addition and subtraction of whole numbers, using objects, pictures, and symbols.	Operations	Building the monthly calendar p. 30 Attendance p. 70	p. 91, 93, 118, 124, 151		Number Stories p. 120 Animal Number Stories p. 121 Snacking Tens p. 122
Identifies and describes three dimensional shapes	4. Geometry ~Recognize, describe, and name shapes. ~Recognize geometric shapes in the environment.	Geometry		p. 61, 96, 234	<i>Goldilocks and the Three Squares</i> <i>The Greedy Triangle</i> <i>Of Colors and Shapes</i>	Shapes Snakes p. 96 "I Spy" Sculpture Shapes p. 100 Cylinder Towers p. 101 Body Shapes p. 108
Compares and sorts geometric shapes by common attributes	4. Geometry ~Notice differences and begin to identify, describe, model, draw, and classify geometric shapes.	Geometry		p. 39, 53, 234	<i>The Circle</i> Hap Palmer CD	Shapes Snakes p. 96 "I Spy" Sculpture Shapes p. 100 Find the Block p. 106 Body Shapes p. 108
Orders objects by size, height, and length	5.Algebra & Functions ~Recognize objects arranged in a series and begin to place objects in order through trial and error.	Measurement		p. 51	<i>The Best Bug Parade</i> Stuart Murphey	Arranging Items by Lengths p. 123
Identifies coins by color and markings.	2. Computation ~Explore the use and meaning of currency and coins.	Money		p. 99, 103, 112, 116, 122, 128, 134	<i>Bunny Money</i> Rosemary Wells	Coin Sorting Data p. 102 Coin Match p. 103

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Guidepost 5						
Everyday Math Goals	Indiana Foundations*	Strand	Routine	Minute Math	Other Centers Or Games	Teacher's Guide to Activities
Performs rote counting 1 to 20	1. Number Sense ~Use the names for numbers.	Numeration		p. 87, 111,127		How many steps p. 128 Say the Next Number p. 147 Number Line Mathematics p. 156
Generates and describes new patterns	3. Algebra and Functions ~Reproduce patterns of sounds and movements. ~Recognize simple patterns of concrete objects. ~Reproduce simple patterns of concrete objects.	Algebra				Pattern Block Puzzles p. 132 Stand, Squat, or Kneel Pattern p. 134 Macaroni Necklaces p. 135 Shoe Patterns p. 150 Three Object Patterns p. 151 Making Pattern-Block Pictures p.163 Pattern Block Cards p.176 "B-I-N-G-O" p. 183
Orders object by weight	5.Measurement ~Estimate quantity, distance, weight, and length of familiar objects.	Measurement		p. 51	<i>Just Enough</i>	More or Less on a Rocker Balance p.141 Hand-Weighing with Two Containers p. 153 Which weighs more dry or wet? p. 159 Mystery Weight p. 165 How Much Does it Hold? p. 166

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Guidepost 5 (Cont'd)						
Everyday Math Goals	Indiana Foundations*	Strand	Routine	Minute Math	Other Centers Or Games	Teacher's Guide to Activities
Uses non-standard measurement to determine height and length	5.Measurement ~Use familiar objects as measuring devices.	Measurement		p. 28	<i>The Mitten</i> Jan Brett(use mittens to measure objects)	How Many Steps? p. 128 Monster Handprints p. 158 (adapt) "Hide and Seek" Buildings p. 179 "Hide and Seek" Longer Buildings p.180 "Hide and Seek" Taller Buildings p.181
Sequences events in the order of occurrence using time concepts, such as morning /afternoon/night.	5.Measurement ~Recognize time as a sequence of events that relate to daily life. ~Realize some activities take longer than others.	Time Measurement	Door clock p. 67	p. 57, 89, 105	<i>All in a Day</i> Mitsumasa Anno	Beat the clock p. 128 My Favorite things to Do at School p. 130
Displays data using objects, pictures, and graphs	3. Algebra and Functions ~Recognize charts and graphs as a way of collecting, organizing, recording, and describing information. ~Understand and explain what a graph shows.	Algebra	Weather Observation Routine p.26 Recording Daily Temperature p.72 Birthday Bar Graph p.104	p. 110	<i>Tiger Math: Learning to Graph From a Baby Tiger</i> A. Nagda and C. Bickel	Favorite Color Graph p. 131 Clothing-Color Bar Graph p. 148 "Who Has Pets?" Survey p. 149 Pets Graph p. 172

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