

Module 3 Kindergarten

Topic	Lesson	Materials to gather
Topic A	1	Teacher (T) <ul style="list-style-type: none"> • A photo of a skyscraper and a photo of a 1-story building • Heavy book • Piece of ribbon 1 meter long • 2 Chairs • 2 pencils of different lengths Students (S) <ul style="list-style-type: none"> • Pennies • Number Path (Fluency Template) • 2 strips of paper (a longer blue one and a shorter red one)
	2	(T) <ul style="list-style-type: none"> • Marker • Crayon • String • Scissors • Masking tape (S) <ul style="list-style-type: none"> • Bags of beans • Laminated paper or foam work mat • Dice • String • Scissors • Clipboard • Pencil • Longer or shorter recording sheet (Template)
	3	(S) <ul style="list-style-type: none"> • Hidden Numbers Mat (Fluency Template) inserted into personal white board • Longer than and shorter than work mat (Template) • Popsicle stick and prepared paper bag filled with various items to measure (e.g., pencil, eraser, glue stick, toy car, small block, 12-inch, piece of string, marker, child's scissors, crayon, tower of 5 linking cubes) per pair
Topic B	4	(S) <ul style="list-style-type: none"> • Bag of loose linking cubes per pair: 40 red and 15 of another color or 30 of one color and 25 of another, depending on how you build the stairs (see p. 41) • Longer or shorter mat (Template)

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	5	(T) <ul style="list-style-type: none"> Large 5-group cards in vertical orientation (Fluency Template 1) (S) <ul style="list-style-type: none"> Dot path (Fluency Template 2) placed in a personal white board 1 bag of linking cube stairs from Lesson 4 per pair
	6	(T) <ul style="list-style-type: none"> 20-bead Rekenrek (S) <ul style="list-style-type: none"> Hidden numbers mat (Lesson 3 Fluency Template) in personal white board Crayon Paper Bag of linking cube stairs Bag of linking cube number stairs and paper bag filled with various items to measure (e.g., pencil, eraser, glue stick, toy car, small block, 8-inch piece of string, marker, child's scissors, crayon) per pair
	7	(T) <ul style="list-style-type: none"> Green and red dry-erase markers Bag of linking cube number stairs Riddle work mat (Template) copied on two sides of the paper or inserted into personal white board (S) <ul style="list-style-type: none"> Die (with the 6-dot side covered) Personal white board Small ball of clay Bag of linking cube number stairs Riddle work mat (Template) copied on two sides of the paper or inserted into personal white board
Topic C	8	(T) <ul style="list-style-type: none"> Personal white board (optional) (S) <ul style="list-style-type: none"> Bag of beans Laminated paper or foam work mat 2 dice Number path (Lesson 1 Fluency Template) (Optional) Make 5 (Fluency Template) Random objects around the room—each pair of students needs to have at least 3 objects to test. Need to include—something tall, but light, (bag of rice cakes) and something short, but heavy (a can). Other suggestions on p. 81. Objects should be placed in the front of the room prior to the beginning of the lesson.
	9	(T) <ul style="list-style-type: none"> Large 5-group cards (5-7) (Lesson 5 Fluency Template 1) Lighter or heavier recording sheet (Template) affixed to the white board (S)

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		<ul style="list-style-type: none"> ● Hidden numbers mat (Lesson 3 Fluency Template) inserted into personal white board ● Die (with the 6-dot side covered) ● Personal white board ● Simple balance scale and assortment of objects such that each small group of students has at least three things to compare (include some objects that are the same weight) ● Lighter or heavier recording sheet (Template)
10	(T) <ul style="list-style-type: none"> ● Green and red dry-erase markers ● Large 5-group cards (Lesson 5 Fluency Template 1) ● Balance scale ● Pencil ● Marker ● Bag of 30 pennies ● As heavy as recording sheet (Template) affixed to the white board (S) <ul style="list-style-type: none"> ● Bag of beans ● Foam or laminated paper work mat ● 2 die ● Balance scale ● Bag of 30 pennies ● Bag of objects to weigh (including a pencil, an eraser, a marker, a small child's pair of scissors, a linking cube, and a small block or toy) per pair or small group ● As heavy as recording sheet (Template) 	
11	(T) <ul style="list-style-type: none"> ● Balance scale and assorted objects ● Large 5-group cards (Lesson 5 Fluency Template 1) ● Ball of clay (S) <ul style="list-style-type: none"> ● Hidden numbers mat (Lesson 3 Fluency Template) inserted into personal white board ● Small bag of about 10 Leg-type building blocks, balance scale for small group ● 20 pennies ● Balance scale ● Ball of clay (per small group or pair) 	
12	(T) <ul style="list-style-type: none"> ● 5-group cards in vertical orientation (Lesson 5 Fluency Template 1) ● Simple balance scale ● Marker ● 2 pennies ● Small bag of linking cubes ● Small counters 	

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		<ul style="list-style-type: none"> • Beans • As heavy as a set recording sheet (Template) <p>(S)</p> <ul style="list-style-type: none"> • Die (with the 6-dot side covered) • Personal white board • Dot path (Lesson 5 Fluency Template 2) inserted into personal white board • 1 simple balance scale per pair or small group of students • 4 small bags of various items to use as weights (pennies, linking cubes, small counters, and large dried beans) • Collection of classroom objects for the balance exercise • As heavy as a set recording sheet
Topic D	13	<p>(T)</p> <ul style="list-style-type: none"> • Dot cards of 6 (Fluency Template) • 2 cups of uncooked rice • Several small containers (two with equal capacity: coffee or beverage scoop, $\frac{1}{4}$ cup measure, teacup, bowl, small drinking cup, small box, tablespoon) • Tray per pair or small group • Capacity recording sheet <p>(S)</p> <ul style="list-style-type: none"> • Dot cards of 6 (Fluency Template) • 10 linking cubes • Pair of dice with the 6-dot side covered with a sticker • 2 cups of uncooked rice • Several small containers (two with equal capacity: coffee or beverage scoop, $\frac{1}{4}$ cup measure, teacup, bowl, small drinking cup, small box, tablespoon) • Tray per pair or small group • Capacity recording sheet
	14	<p>(T)</p> <ul style="list-style-type: none"> • Set of student materials for demonstration <p>(S)</p> <ul style="list-style-type: none"> • Hidden numbers mat (Lesson 3 Fluency Template) • Small ball of clay • 2 cups of rice • Clear containers (if possible) with varying diameters (e.g. a glass, small bowl, small vase with an interesting shape, bottle, mug) • Tray • Funnel • Spoon • Volume recording sheet (Template)
	15	<p>(T)</p> <ul style="list-style-type: none"> • Dot cards of 7 (Fluency Template) • Set of student materials for demonstration

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		<ul style="list-style-type: none"> • We've got the scoop recording sheet (Template) affixed to the white board <p>(S)</p> <ul style="list-style-type: none"> • Dot cards of 7 (Fluency Template) • Bag of beans • Foam or laminated paper work mat • 2 dice with 6-dot side covered • 10 linking cubes • Small ball of clay and 10 beans • 2 cups of rice • Assortment of containers (teacup, small bottle, bowl, glass, small box, measuring cup) • Small scoop such as a coffee scoop • Funnel • Tray per pair or small group • We've got the scoop recording sheet (Template)
	Mid-Module 3 Days	<p>(S)</p> <ul style="list-style-type: none"> • 6- and 9- inch pieces of string • Two linking cube sticks of 5 and one linking cube stick of 7 • 9-inch piece of string • Balance scale • Pennies • Centimeter cubes • 1 light book • 1 heavy book • 1 small container (1/8 cup) • 1 plastic cup with 1/2 cup of rice in it • 1 small bowl filled with rice • Tube for pouring rice from bowl into cup
Topic E	16	<p>(T)</p> <ul style="list-style-type: none"> • Shape signs (Fluency Template 1) • Music • 1 set of student materials <p>(S)</p> <ul style="list-style-type: none"> • Lined writing paper • Playing card • Bag of linking cubes • My square recording sheet (Template) • 1 four-inch square of construction paper • 1 four-inch diameter paper circle • 20 one-inch paper or plastic square tiles • 1 small bag of large flat beans
	17	<p>(T)</p> <ul style="list-style-type: none"> • Dot cards of 8 (Fluency Template) • Music player

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		<ul style="list-style-type: none"> • Chairs, carpet squares, or pieces of construction paper per student • Plus several more chairs than students <p>(S)</p> <ul style="list-style-type: none"> • Dot cards of 8 (Fluency Template) • Dice • Paper plate • Cup • Spoon • Napkin • Popcorn (or some other snack) • Bottle of water
	18	<p>(T)</p> <ul style="list-style-type: none"> • Basket of 3 blocks or small toys • Additional blocks <p>(S)</p> <ul style="list-style-type: none"> • Dice • Personal white board • Bag of 5 loose red linking cubes • Bag of 10 loose blue linking cubes • Pair of dice with the 6-dot side covered • 5 additional red linking cubes
	19	<p>(T)</p> <ul style="list-style-type: none"> • Varied dot cards of 9 (Fluency Template) • Box of markers <p>(S)</p> <ul style="list-style-type: none"> • Varied dot cards of 9 (Fluency Template) • Lined writing paper • 1 small ball of clay • Bag of 5 pennies • Bag of 10 loose linking cubes
Topic F	20	<p>(T)</p> <ul style="list-style-type: none"> • Count and Circle How Many Sprint (project for students to view) • Framed portrait of the teacher at 5-6 years old • Bag of 20 linking cubes • 10-sided die <p>(S)</p> <ul style="list-style-type: none"> • Square path letter trains (Template) • Bag of 20 linking cubes • 10-sided die
	21	<p>(T)</p> <ul style="list-style-type: none"> • Shapes (Template 1) cut out and arranged in rows on the board <p>(S)</p> <ul style="list-style-type: none"> • 1 copy of the Count and Circle How Many Sprint (Lesson 20) • Linking cubes • Dry erase marker

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		<ul style="list-style-type: none"> • More than, fewer than recording sheet (Template 2)
	22	(T) <ul style="list-style-type: none"> • (S) <ul style="list-style-type: none"> • Dice with 6-dot side covered • Personal white board • 7 linking cubes • Small piece of clay • 10-sided die (or spinner) • Bag of 20 linking cubes • Bag of 20 pennies
	23	(S) <ul style="list-style-type: none"> • 10-sided die • Bag of 20 linking cubes • Bag of 20 pennies per pair
	24	(S) <ul style="list-style-type: none"> • 10-sided die • Bag of 20 linking cubes • Bag of 20 pennies per pair
Topic G	25	(T) <ul style="list-style-type: none"> • White board and markers • Shapes (Lesson 21 Template 1) cut out and placed in scatter arrangements on the board (S) <ul style="list-style-type: none"> • 2 copies of Count and Circle How Many (Lesson 20 Sprint) • Bag of 10 pennies • Bag of 8 linking cubes
	26	(T) <ul style="list-style-type: none"> • Dot cards of 6 (Lesson 13 Fluency Template) • White board and markers • Shapes (Lesson 21 Template 1) cut out and placed in scatter arrangements on the board (S) <ul style="list-style-type: none"> • Dot cards of 6 (Lesson 13 Fluency Template)
	27	(T) <ul style="list-style-type: none"> • Ruler • Pencil • 2 sets of student materials [from 10-sided die on...] (S) <ul style="list-style-type: none"> • Hidden numbers mat (Lesson 3 Fluency Template) • Pattern blocks • Small bucket per pair • 10-sided die • Bag of 10 linking cubes • Bag of 10 beans

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Topic H		<ul style="list-style-type: none"> ● Bag of 10 pennies ● Bag of 10 counters per pair
	28	(T) <ul style="list-style-type: none"> ● Bell, chime, or other gentle noisemaker (S) <ul style="list-style-type: none"> ● 2 copies of the Counting to 5 Sprint ● Paper ● Crayons ● Small ball of clay ● 1 set of 5-group cards (Template)
	29	(T) <ul style="list-style-type: none"> ● 4 real objects filled with various amounts of liquids (e.g., small bottle, mug, vase, and bowl) ● Clear measuring cup ● Water ● Several vials of food coloring ● An assortment of clear 1- or 2-cup capacity containers in various shapes (e.g. mug, bowl, small bottle, vase, or beaker) (S) <ul style="list-style-type: none"> ● 5 linking cubes ● Dice with 6-dot side covered ● Personal white board ● My capacity museum recording sheet (Template) ● Crayons or markers
Topic H	30	(T) <ul style="list-style-type: none"> ● 20 bead Rekenrek (S) <ul style="list-style-type: none"> ● 5 linking cubes ● Apple mat (Fluency Template) ● 10 red beans ● Die with 6-dot side covered ● Balance scale ● 2 small pieces of clay per pair of partners (different color clays, but equal weight) ● Clay shapes recording sheet (Template)
	31	(S) <ul style="list-style-type: none"> ● 2 copies of the Rekenrek to 5 Sprint ● Bag of pony beads ● 1 foot of elastic string or yarn with a bead tied on one end to prevent the beads from falling off ● Construction paper ● Crayons or markers ● Scissors ● Tape ● 10-sticks

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32		<p>(T)</p> <ul style="list-style-type: none"> ● Assorted classroom objects ● Balance scale ● Wide variety of objects arranged on the table from past lessons such as a piece of clay, a few linking cube sticks, clear containers including a vase and a cup, a string, a paper strip, a set of pennies, an empty clean juice box, a water bottle, and other student favorites <p>(S)</p> <ul style="list-style-type: none"> ● Dot cards of 6 (Lesson 13 Fluency Template) inserted into personal white board ● Balance scale ● Bag of two cups of rice ● Small scoop ● Tray for a working surface per pair ● Comparing attributes recording sheet (Template)
End-of-Module 3 Days		<p>(T)</p> <ul style="list-style-type: none"> ● 7 spoons ● 8 bowls ● 6 1 inch x 1 inch squares ● 1 2 inch x 3 inch square piece of paper ● 12 loose linking cubes ● Empty juice box with the top cut off ● Cup full of rice ● Linking cube stick of 7 ● Balance scale ● Many additional cubes ● Student scissors ● Tub for pouring rice from cup to juice box <p>(S)</p> <ul style="list-style-type: none"> ● 1 set of 6 linking cubes ● 1 set of 4 linking cubes ● Additional linking cubes