

Math Small Group Activities by Content Area Session 2

Math – like literacy or any other content area – should be embedded in real and meaningful experiences that are part of a comprehensive curriculum.¹

¹ *"I'm Older Than You. I'm Five!" Math in the Preschool Classroom*, p. xi

➤ Small Group Activities by Content Area, Session 2 – Overview

- Provided are 23 lessons in Session 2 which were extracted from the *Numbers Plus* kit to support your lesson planning.
- In addition, math activities are provided from other HighScope resource books which are referenced in (Tab 8).
- The lessons have been organized by Content Area.
 - To build mastery, children need to experience activities in the same Content Area several days in a row.
- Again, it is important that your lessons cover all five content areas in some way.
 - If you choose to use lessons other than these, be sure to cover all five content areas by the pausing point.
- At the pausing point you will be entering anecdotes for each child in each of these five content areas.

Math Small Group Activities by Content Area-Session 2

Aligned with KDI, COR Advantage and NYSFCC

Small-Group Activities Session 2	Numbers and Counting	Geometry and Spatial Awareness	Measurement	Algebra/ Patterns and Sequences	Data Analysis
	(KDI 31, 32, 33) COR Item S	(KDI 34, 35) COR Item T	(KDI 36,37) COR Item U	(KDI 38) COR Item V	(KDI 39) COR Item W
	NYS FCC - Counting & Cardinality	NYS FCC – Geometry	NYS FCC – Measurement and Data	NYS FCC – Operations and Algebraic Thinking	NYS FCC – Measurement and Data
	Know number names and count sequence	Identify and describe shapes	Describe and compare measurable attributes	Understanding simple patterns	Sorts objects and count the number of objects in each category
	Count to tell number of objects	Analyze, compare and sort objects			
	Compare numbers				
	NYS FCC – Operations and Algebraic Thinking:				
	Understand addition is adding to, and understand subtraction is taking from				
Numbers Plus Kit, Number Sense and Operations, Card 2, "Bears on a Boat"					
Numbers Plus Kit, Number Sense and Operations, Card 6, "Button Drop"					
Numbers Plus Kit, Number Sense and Operations, Card 11, "Counting Song"					

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Numbers Plus Kit, Number Sense and Operations, Card 12, "Dinosaur Hunt"					
Numbers Plus Kit, Number Sense and Operations, Card 27, "Numeral Hunt"					
"I'm Older Than You. I'm Five!", p. 34, "Dot Cards"					
<u>Small-Group Times to Scaffold Early Learning.</u> p. 53, "Going Shopping"					
<u>Movement Plus Rhymes, Songs, & Singing Games,</u> p.12, "One, Two, Tie My Shoe"					

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<u>Movement Plus Rhymes, Songs, & Singing Games</u> , p. 6, "Bubble Gum"					
Number Plus Kit, Geometry, Card 2, "Comparing Shapes"					
Number Plus Kit, Geometry, Card 5, "Feeling Shapes: Which Ones Match"					
Number Plus Kit, Geometry, Card 7, "Identifying Shapes"					
Numbers Plus Kit, Geometry, Card 11, "Marshmallow Shapes"					
<u>Movement Plus Rhymes, Songs, & Singing Games</u> , p. 80, "Shape Song"					
<u>Story Starters for Group Times</u> , p. 75, "Shape Tales"					

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"I'm Older Than you I'm Five!", p. 86, "Secret Shape Sheets"					
100 Small-Group Experiences, p. 164, "Stone Drawings"					
Numbers Plus Kit, Measurement, Card 4, "Color Recipes"					
Numbers Plus Kit, Measurement, Card 5, "Construction Zone: Height"					
Numbers Plus Kit, Measurement, Card 6, "Construction Zone: Width"					
Numbers Plus Kit, Measurement, Card 8, "Fill It Up"					
Numbers Plus Kit, Measurement, Card 9, "How Far Can I Jump"					

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100 Small- Group Experiences, p. 124, "Working With Sticks, Straws and Play-Doh Balls"					
Small-Group Times To Scaffold Early Learning, p. 59. "How Tall is My Teacher"					
Story Starters for Group Times, p. 62, "Dickering Dinosaurs"					
Numbers Plus Kit, Algebra, Card 8, "Jump, Clap"					
Numbers Plus Kit, Algebra, Card 9, "Line Them Up"					
Numbers Plus Kit, Algebra, Card 7, "I Spy Patterns"					
Numbers Plus Kit, Algebra, Card 13, "Rhythm Stick Patterns"					

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Numbers Plus Kit, Algebra, Card 6, "Fruit Stand"					
Numbers Plus Kit, Data Analysis, Card 2, "Chocolate Milk"					
Numbers Plus Kit, Data Analysis, Card 4, " Does It Look Like Us?"					
Numbers Plus Kit, Data Analysis, Card 5, "Fascinating Fastners"					
Numbers Plus Kit, Data Analysis, Card 7, "How Did You Build That?"					
"I'm Older Than you I'm Five!", p. 30, "Collage Collection"					
Small-Group Times to Scaffold Early Learning, p. 47, " Basket Toss"					
"I'm older than You I'm Five!", p. 58, "Looking at Pebbles"					

Materials for Session 2

Text used	Small Group Activity	Materials to Order	Materials from Home
Numbers Plus Kit Number Sense and Operations	Card 2: "Bears on a Boat"	Counting bears Rectangle blocks	Washcloths Napkins Fabric pieces
Numbers Plus Kit Number Sense and Operations	Card 6: "Button Drop"	Poker chips Plastic buttons	Paper cups or other container(note sizes on card)
Numbers Plus Kit Number Sense and Operations	Card 11: "Counting Song"	None	None
Numbers Plus Kit Number Sense and Operations	Card 12: "Dinosaur Hunt"	Small plastic Dinosaurs Plastic insects Variety of small animals	Large container (holds up to 10 dinosaurs)
Numbers Plus Kit Number Sense and Operations	Card 27:" Numeral Hunt"	Sticky notes Small clipboards(9) Small paper bags	None
"I'm Older than You. I'm Five!"	"Dot Cards" p.34	Basket for each child Construction paper Cardboard Variety of beads and buttons Glue Markers or crayons	Acorns Pebbles Beans Bottle lids
<u>Small-Group Times to Scaffold Early Learning</u>	"Going Shopping" p.53	Plastic store items, plastic animals, buttons, beans, straws (50 or more) dice Basket	Shopping bag (holds 20 items) Additional items for "shopping"

Materials for Session 2

Text used	Small Group Activity	Materials to Order	Materials from Home
<u>Movement Plus</u> <u>Rhymes, Songs, &</u> <u>Singing Songs</u>	"One Two ,Tie My Shoe" p.12	Rhythm sticks	Chopsticks
<u>Movement Plus</u> <u>Rhymes, Songs, &</u> <u>Singing Songs</u>	"Bubble Gum" p.6	None	None
Numbers Plus Kit, Geometry	Card 2: "Comparing Shapes"	Paper Markers or crayons	Set of triangles, circles, and rectangles in different sizes, colors and materials containers
Numbers Plus Kit, Geometry	Card 5: "Feeling Shapes: Which Ones Match"	Tag board Markers or Crayons Feely bag	Set of triangles, circles, and rectangles in the same size
Number Plus Kit, Geometry	Card 7: "Identifying Shapes"	Tag board Scissors Chart paper	Set of 5-6 different types of triangles
Numbers Plus Kit, Geometry	Card 11: "Marshmallow Shapes"	Paper Markers or crayons	Large bag of Mini Marshmallows, gumdrops or play-Doh
<u>Movement Plus</u> <u>Rhymes, Songs, &</u> <u>Singing Songs</u>	"Shape Song" p. 80	Carpet squares or hula hoops suggested	None
<u>Story Starters for Group Time</u>	"Shape Tales" p.75	Construction paper Glue White paper tape	Set of circles, triangles, rectangles and squares in different sizes and colors for each child. Include various other shapes

Materials for Session 2

Text used	Small Group Activity	Materials to Order	Materials from Home
<u>I'm Older Than You. I'm Five!</u>	"Secret Shape Sheets" p. 86	Poster board Puzzles Blocks Pencils	Household items to trace
<u>100 Small Group Experiences</u>	"Stone Drawings" p.164	White butcher block paper Paint Glue	Different-sized Stones and Rocks
Numbers Plus Kit, Measurement	Card 4: "Color Recipes"	Blank recipe cards or index cards large tub Paint red, yellow and blue Popsicle sticks Plastic cups (3)	Teaspoons and Tablespoons for each child Set of measuring spoons
Numbers Plus Kit, Measurement	Card 5: "Construction Zone: Height"	Duplo blocks Wooden blocks Chalk Straws two sizes	Ruler String
Numbers Plus Kit, Measurement	Card 6: "Construction Zone: Width"	Duplo blocks Wooden blocks Chalk Straws two sizes	Ruler String
Numbers Plus Kit, Measurement	Card 8: "Fill it Up"	Measuring cups sand	variety of materials for filling
Numbers Plus Kit, Measurement	Card 9: "How Far Can I Jump"	Masking tape Sticky notes Unit blocks Letter Links Chart paper	None
<u>100 Small Group Experiences</u>	"Working with Sticks, Straws and Play-Doh Balls" p.124	Play-Doh Plastic bowls Chenille Stems Straws	Sticks of different lengths

Materials for Session 2

Text used	Small Group Activity	Materials to Order	Materials from Home
<u>Small Group Times to Scaffold Learning</u>	"How Tall is My Teacher" p. 59	Butcher paper Markers/Crayons Measuring tools	1 adult dress shoe 1 Child size shoe Unconventional measuring tools
<u>Story Starters for Group Times</u>	"Dickering Dinosaurs" p. 62	Blocks of different lengths Paper Writing tools	
Numbers Plus Kit, Algebra	Card 8: "Jump, Clap"	None	None
Numbers Plus Kit, Algebra	Card 9: "Line Them Up"	Collection of items animals, blocks, buttons, shells etc. Paper and markers	Short and long sticks or rods Rice, beans, pebbles
Numbers Plus Kit, Algebra	Card 7: "I Spy Patterns"	Chart paper Various types of patterns	Wallpaper pattern, catalogs, patterned fabric scraps
Numbers Plus Kit, Algebra	Card 13: "Rhythm Stick Patterns"	Rhythm sticks Blocks in different colors	None
Numbers Plus Kit, Algebra	Card 6: "Fruit Stand"	Construction paper tape glue	None
Numbers Plus Kit, Data Analysis	Card 2: "Chocolate Milk"	Small paper cups	Milk Instant chocolate mix (may use fruit juice, cut up fruit or veggies and dip)
Number Plus Kit, Data Analysis	Card 4: "Does it Look Like Us"	Paper Markers or Pencils Glue sticks Scissors	Magazines/Catalogs
Numbers Plus Kit, Data Analysis	Card 5: "Fascinating Fastners"	Variety of fastners Chart paper Markers	Dress- up clothes

Materials for Session 2

Text used	Small Group Activity	Materials to Order	Materials from Home
Numbers Plus Kit, Data Analysis	Card 7 "How Did You Build That?"	Blocks (assorted shapes) Counting bears Chart paper Writing tools	2 Containers
"I'm Older than You. I'm Five!"	"Collage Collection" p. 30	Construction paper Collage materials Cardboard or Tagboard Glue	Materials to add to collage materials containers for sorting
<u>Small Group Times to Scaffold Learning</u>	"Basket Toss" p. 47	Bean bags or other tossable items Chart paper Markers	Small and Large container
<u>I'm Older Than You. I'm Five!"</u>	"Looking at Pebbles" p. 58	Magnifying glasses Chart paper Markers	Small rocks and pebbles

