

IM K-5 MATH™ by Kendall Hunt

Kindergarten

UNIT 1

Virtual Manipulatives

[Connecting Cubes](#)
[Pattern blocks](#)
[Counters](#)
[5-frame and counters](#)
[Geoblocks](#)
[Dot Cube](#)

Lesson	Required Materials	Required Preparation	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
K.1.1	Connecting cubes Poster board to make Mathematical Community poster			MLR8	Notice and Wonder	Preparation Notes
K.1.2	Pattern blocks			MLR8	Notice and Wonder	Preparation Notes
K.1.3	Two-color counters 5-frame (BLM)		BLM Lesson 3	MLR8	Notice and Wonder	Preparation Notes
K.1.4	Geoblocks Solid shapes Geoblocks Stage 2 (BLM)		BLM Lesson 4	MLR8	Notice and Wonder	Preparation Notes
K.1.5	Connecting cubes Materials from previous centers	Activity 1:	BLM Lesson 5	MLR8	Notice and Wonder	Preparation Notes

	Pattern blocks Connecting Cubes Stage 2 Cards (BLM) Pattern Blocks Stage 2 Mat (BLM)	Create a set of cards from the blackline master for each group of 2. Activity 3: Gather Materials from: Pattern Blocks , Stage 1 and Stage 2 Connecting Cubes , Stage 1 and Stage 2 Geoblocks , Stage 1 and Stage 2				
K.1.6	Materials from previous centers Picture books	Activity 3: Gather materials from: Connecting Cubes , Stages 1 and 2 Pattern Blocks , Stages 1 and 2 Geoblocks , Stages 1 and 2 Picture Books , Stage 1		MLR8	Act It Out How Many Do You See?	Preparation Notes
K.1.7	Materials from previous centers	Activity 3: Gather materials from: Pattern Blocks , Stages 1 and 2 Connecting Cubes , Stages 1 and 2 Geoblocks , Stages 1 and 2 Picture Books , Stage 1		MLR8	Act It Out How Many Do You See?	Preparation Notes
K.1.8	Materials from previous centers	Activity 2:	BLMs Lesson 8	MLR8	Act It Out How Many Do You See?	Preparation Notes

	Different Groups, Same Quantity (BLM)	<p>Create a set of cards from the blackline master for each group of 2.</p> <p>Activity 3: Gather materials from: Connecting Cubes, Stages 1 and 2 Pattern Blocks, Stages 1 and 2 Geoblocks, Stages 1 and 2 Picture Books, Stage 1</p>				
K.1.9	Colored pencils or crayons Materials from previous centers Picture Books Stage 2 Recording Sheet (BLM)	<p>Activity 3: Gather materials from: Connecting Cubes, Stages 1 and 2 Pattern Blocks, Stages 1 and 2 Geoblocks, Stages 1 and 2 Picture Books, Stages 1 and 2</p>	BLM Lesson 9	MLR8	Act It Out How Many Do You See?	Preparation Notes
K.1.10	Erasers Materials from previous centers Pencils	<p>Activity 2: Each group of 4 needs 4 pencils and 3 erasers.</p> <p>Activity 3: Gather materials from: Connecting Cubes, Stages 1 and 2 Pattern Blocks, Stages 1 and 2 Geoblocks, Stages 1 and 2</p>		MLR8	Act It Out How Many Do You See?	Preparation Notes

		Picture Books , Stages 1 and 2				
K.1.11	Materials from previous centers Pencils	<p>Activity 2: Each group of 4 needs at least 8 pencils.</p> <p>Activity 3: Gather materials from: Connecting Cubes, Stages 1 and 2 Pattern Blocks, Stages 1 and 2 Geoblocks, Stages 1 and 2 Picture Books, Stages 1 and 2</p>		MLR8	Act It Out How Many Do You See?	Preparation Notes
K.1.12	5-frames Collections of objects Materials from previous centers Pattern blocks Pattern Blocks Stage 3 Directions (BLM) Counting Mat (BLM)	<p>Activity 1: Based on their formative assessment data, each student needs: collection of 1–5 objects collection of 6–10 objects collection of more than 10 objects (optional)</p> <p>Activity 3: Gather materials from: Connecting Cubes, Stages 1 and 2 Pattern Blocks, Stages 1 and 2 Geoblocks, Stages 1 and 2 Picture Books, Stages 1 and 2</p>	BLM Lesson 12	MLR8	Questions About Us	Preparation Notes

K.1.13	5-frames Collections of objects Counting mats Materials from previous centers	Activity 2: Each students needs a bucket or container to place their objects in as they count them. Activity 3: Gather materials from: Connecting Cubes , Stages 1 and 2 Pattern Blocks , Stages 1, 2, and 3 Geoblocks , Stages 1 and 2 Picture Books , Stages 1 and 2		MLR8	Questions About Us	Preparation Notes
K.1.14	5-frames Chart paper Collections of objects Connecting cubes Counting mats Egg cartons Materials from previous centers Connecting Cubes Stage 3 Directions (BLM) Egg Carton Counting (BLM)	Activity 3: Gather materials from: Connecting Cubes , Stages 1 and 2 Pattern Blocks , Stages 1, 2, and 3 Geoblocks , Stages 1 and 2 Picture Books , Stages 1 and 2	BLM Lesson 14	MLR8	Questions About Us	Preparation Notes
K.1.15	5-frames Chart paper Collections of objects Counting mats	Activity 3: Gather materials from: Connecting Cubes , Stages 1, 2, and 3		MLR8	Questions About Us	Preparation Notes

	Materials from previous centers	Pattern Blocks , Stages 1, 2, and 3 Geoblocks , Stages 1 and 2 Picture Books , Stages 1 and 2				
K.1.16	5-frames Chart paper Collections of objects Counting mats Egg cartons Materials from previous centers Questions About Us 5-Frames (BLM)	Warm-up: Gather the poster created during Questions about Us in the previous lesson. Activity 3: Gather materials from: Connecting Cubes , Stages 1, 2, and 3 Pattern Blocks , Stages 1, 2, and 3 Geoblocks , Stages 1 and 2 Picture Books , Stages 1 and 2	BLM Lesson 16	MLR8	Questions About Us 5 Practices	Preparation Notes
K.1.17	5-frames Connecting cubes Counting mats			MLR8	How Many Do You See?	Preparation Notes

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UNIT 2

Virtual Manipulatives

[5-frame and counters](#)

[Counters](#)

[Connecting Cubes](#)

[Geoblocks](#)

[Pattern blocks](#)

Lesson	Required Materials	Required Preparation	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
K.2.1	Materials from previous centers Math Fingers Cards (BLM)	Activity 3: Gather materials from: Pattern Blocks , Stages 1-3 Picture Books , Stages 1 and 2	BLM Lesson 1	MLR8	Choral Count	Preparation Notes
K.2.2	5-frames Connecting cubes Cups Materials from previous centers Two-color counters	Activity 2: Each group of 2 needs 10 two-color counters and 1 cup. Activity 3: Gather materials from: Shake and Spill , Stage 1 Math Fingers , Stage 1 Pattern Blocks , Stages 1-3 Picture Books , Stages 1 and 2		MLR8	Choral Count	Preparation Notes

K.2.3	<p>Bags (brown paper)</p> <p>Colored pencils, crayons, or markers</p> <p>Connecting cubes</p> <p>Counters</p> <p>Materials from a previous activity</p> <p>Materials from previous centers</p> <p>Pattern blocks</p> <p>Number Race Stage 1</p> <p>Recording Sheet for Tracing (BLM)</p> <p>Number Mat 1-10 (BLM)</p>	<p>Activity 1:</p> <p>Each group of 2 needs a bag with 8 to 10 green triangle pattern blocks and 1 to 3 orange square pattern blocks.</p> <p>6 connecting cubes and 2 pattern blocks needed for display.</p> <p>8 orange square pattern blocks and 2 green triangle pattern blocks needed for display.</p> <p>Activity 2:</p> <p>Each group of 2 needs a bag of green triangle and orange square pattern blocks from the previous activity.</p> <p>Activity 3:</p> <p>Each group of 2 needs 1 connecting cube.</p> <p>Gather materials from:</p> <p>Shake and Spill, Stage 1</p> <p>Math Fingers, Stage 1</p> <p>Pattern Blocks, Stages 1-3</p> <p>Picture Books, Stages 1 and 2</p>	BLM Lesson 3	MLR8	Choral Count	Preparation Notes
K.2.4	<p>Connecting cubes</p> <p>Counters</p>	<p>Activity 2:</p>		MLR8	How Many Do You See?	Preparation Notes

	<p>Cups</p> <p>Materials from previous centers</p> <p>Two-color counters</p>	<p>Each group of 2 needs 10 two-color counters and 1 cup.</p> <p>Activity 3:</p> <p>Gather materials from:</p> <p>Number Race, Stage 1</p> <p>Shake and Spill, Stages 1 and 2</p> <p>Math Fingers, Stage 1</p> <p>Pattern Blocks, Stages 1-3</p> <p>Picture Books, Stages 1 and 2</p>				
K.2.5	<p>Collections of objects</p> <p>Connecting cubes</p> <p>Materials from previous centers</p> <p>Less, Same, More Mat (BLM)</p> <p>Math Fingers Cards (BLM)</p>	<p>Activity 1:</p> <p>Each group of 2 needs at least 2 collections of between 2 and 9 objects.</p> <p>Activity 3:</p> <p>Gather materials from:</p> <p>Less, Same, More, Stage 1</p> <p>Number Race, Stage 1</p> <p>Shake and Spill, Stages 1 and 2</p> <p>Math Fingers, Stages 1 and 2</p> <p>Pattern Blocks, Stages 1-3</p> <p>Picture Books, Stages 1 and 2</p>	BLM Lesson 5	MLR8	How Many Do You See?	Preparation Notes
K.2.6	<p>Bags (brown paper)</p> <p>Connecting cubes</p> <p>Materials from previous centers</p>	<p>Activity 1:</p> <p>Each group needs three bags of 10 or fewer cubes:</p> <p>Bag 1: fewer red cubes than blue cubes</p>		MLR8	How Many Do You See?	Preparation Notes

		<p>Bag 2: more red cubes than blue cubes</p> <p>Bag 3: the same number of red and blue cubes</p> <p>Activity 3: Gather materials from: Less, Same, More, Stage 1 Number Race, Stage 1 Shake and Spill, Stages 1 and 2 Math Fingers, Stages 1 and 2 Pattern Blocks, Stages 1-3 Picture Books, Stages 1 and 2</p>				
K.2.7	<p>Chart paper</p> <p>Counters</p> <p>Materials from previous centers</p> <p>Images in Stations (BLM)</p> <p>Math Stories Stage 1 and 4</p> <p>Pictures (BLM)</p>	<p>Activity 1: Cut out images from the blackline master.</p> <p>Activity 3: Gather materials from: Connecting Cubes, Stages 1-3 Number Race, Stage 1</p>	BLM Lesson 7	MLR8	Questions About Us	Preparation Notes
K.2.8	<p>Materials from previous centers</p> <p>Questions About Us Chart (BLM)</p>	<p>Activity 3: Gather materials from: Math Stories, Stage 1 Connecting Cubes, Stages 1-3 Number Race, Stage 1</p>	BLM Lesson 8	MLR8	Questions About Us	Preparation Notes

K.2.9	<p>Counters</p> <p>Materials from a previous activity</p> <p>Materials from previous centers</p> <p>Questions About Us Chart (BLM)</p> <p>Bingo Stages 1-3</p> <p>Gameboard (BLM)</p> <p>Bingo Stage 1 Cards (BLM)</p> <p>Compare 5-frame Cards (BLM)</p>	<p>Activity 1: Cut out the blackline master to create a set of cards for each student.</p> <p>Activity 3: Gather materials from: Math Stories, Stage 1 Connecting Cubes, Stages 1-3 Number Race, Stage 1</p>	BLM Lesson 9	MLR8	Questions About Us	Preparation Notes
K.2.10	<p>Materials from a previous lesson</p> <p>Materials from previous centers</p> <p>Questions About Us Chart (BLM)</p> <p>Less, Same, More Mat (BLM)</p> <p>Image Cards Grade K (BLM)</p>	<p>Warm-up: Gather the completed Questions About Us: Apples or Bananas chart from a previous lesson.</p> <p>Activity 2: Create a T-chart labeled "Fewer than 5" and "More than 5".</p> <p>Activity 3: Gather materials from: Less, Same, More, Stages 1 and 2 Bingo, Stage 1 Math Stories, Stage 1</p>	BLM Lesson 10	MLR8	Questions About Us	Preparation Notes

		Connecting Cubes , Stages 1-3 Number Race , Stage 1				
K.2.11	Materials from previous centers Sheet protectors Questions About Us Chart (BLM) Less, Same, More Mat (BLM) Image Cards Grade K (BLM)	Activity 2: Each group of 2 needs a set of cards from the blackline master. Activity 3: Gather materials from: Less, Same, More , Stages 1-3 Bingo , Stage 1 Math Stories , Stage 1 Connecting Cubes , Stages 1-3 Number Race , Stage 1	BLM Lesson 11	MLR8	Questions About Us	Preparation Notes
K.2.12	Bags (brown paper) Collections of objects Colored pencils, crayons, or markers Connecting cubes Materials from previous centers Number Race Stage 1 Recording Sheet for Writing (BLM) Reference Sheet Numbers (1–10) with 5-Frames (BLM) Number Mat 1-10 (BLM)	Activity 1: Each group of 4 needs 4 bags. One bag each with: 5 objects, 7 objects, 8 objects, and 9 objects. Activity 2: Each group of 4 needs 1 bag of 1-10 objects labelled with a letter. Activity 3: Gather materials from: Number Race , Stage 1 Geoblocks , Stages 1 and 2	BLM Lesson 12	MLR8	How Many Do You See?	Preparation Notes

K.2.13	<p>Materials from a previous activity</p> <p>Materials from previous centers</p> <p>Sort By Number Mat 1-10 (BLM)</p> <p>Circle Cards (BLM)</p> <p>Reference Sheet Numbers (1–10) with 5-Frames (BLM)</p>	<p>Activity 2: Cut out images in circle cards from the blackline master to make a set of cards for each group of 2. Add these cards to the Image Cards from a previous lesson.</p> <p>Activity 3: Gather materials from: Number Race, Stage 1 Geoblocks, Stages 1 and 2 Math Fingers, Stages 1 and 2</p>	BLM Lesson 13	MLR8	How Many Do You See?	Preparation Notes
K.2.14	<p>Chart paper</p> <p>Connecting cubes</p> <p>Counters</p> <p>Geoblocks</p> <p>Materials from previous centers</p> <p>Number cards 0–10</p> <p>Pattern blocks</p> <p>Bingo Stages 1-3</p> <p>Gameboard (BLM)</p> <p>Reference Sheet Numbers (1–10) with 5-Frames (BLM)</p> <p>Number Cards (0-10) (BLM)</p>	<p>Activity 1: Create a set of number cards from the blackline master for each group of 2. Remove the cards with 0 from the sets.</p> <p>Activity 2: Each group of 2 to 4 students needs a piece of chart paper with a number (1-10) written at the top.</p> <p>Activity 3: Gather materials from: Number Race, Stage 1</p>	BLM Lesson 14	MLR7	How Many Do You See?	Preparation Notes

		Geoblocks , Stages 1 and 2 Math Fingers , Stages 1 and 2				
K.2.15	Chart paper Connecting cubes Materials from previous centers Math Libs Scenes (BLM) Number Mat 1-10 (BLM)	<p>Activity 1: Each group of 4 students need a piece of chart paper with a number (1-10) written at the top.</p> <p>Activity 3: Gather materials from: Math Libs, Stage 1 Bingo, Stages 1 and 2 Number Race, Stage 1 Geoblocks, Stages 1 and 2 Math Fingers, Stages 1 and 2</p>	BLM Lesson 15	MLR7 MLR8	How Many Do You See?	Preparation Notes
K.2.16	Bags (brown paper) Collections of objects Materials from previous centers Sticky notes Math Stories Stage 1 Recording Sheet (BLM) Math Stories Stage 1 and 4 Pictures (BLM)	<p>Activity 2: Each student needs a brown paper (not see through) bag with 1 to 10 objects inside.</p> <p>Activity 3: Gather materials from: Math Stories, Stage 1 Math Libs, Stage 1 Bingo, Stages 1 and 2 Number Race, Stage 1 Geoblocks, Stages 1 and 2 Math Fingers, Stages 1 and 2</p>	BLM Lesson 16	MLR8	How Many Do You See?	Preparation Notes

K.2.17	<p>Connecting cubes</p> <p>Materials from a previous activity</p> <p>Materials from previous centers</p> <p>Number cards 0–10</p>	<p>Activity 1: Each group of students needs a set of number cards 1-10.</p> <p>Activity 2: Students need access to number cards 1-10 and the cube towers that they created in the previous activity.</p> <p>Activity 3: Gather materials from: Math Stories, Stage 1 Math Libs, Stage 1 Number Race, Stage 1</p>		MLR8	Act It Out	Preparation Notes
K.2.18	<p>Connecting cubes</p> <p>Materials from previous Centers</p> <p>Number cards 0–10</p>	<p>Activity 1: Each group of 2 needs cube towers of 1–10 and number cards 1-10.</p> <p>Activity 3: Gather materials from: Math Stories, Stage 1 Math Libs, Stage 1 Number Race, Stage 1</p>		MLR8	Act It Out	Preparation Notes
K.2.19	<p>Materials from previous centers</p>	<p>Activity 2: Cut out cards from the blackline master for each group of 2.</p>	BLM Lesson 19	MLR8	Act It Out	Preparation Notes

	Less, Same, More Mat (BLM) Number and Image Cards (BLM)	Activity 3: Gather materials from: Less, Same, More , Stages 1-4 Math Libs , Stage 1 Number Race , Stage 1				
K.2.20	Chart paper Colored pencils, crayons, or markers Connecting cubes or counters Materials from previous centers	Activity 1: Each group of 2 needs 1 half sheet of chart paper. Activity 3: Gather materials from: Less, Same, More , Stages 1-4 Math Libs , Stage 1 Number Race , Stage 1		MLR7	Act It Out	Preparation Notes
K.2.21	Connecting cubes or counters Materials from previous centers Number Mat 1-10 (BLM)	Activity 3: Gather materials from: Less, Same, More , Stages 1-4 Math Libs , Stage 1 Number Race , Stage 1	BLM Lesson 21	MLR8	Act It Out	Preparation Notes
K.2.22	Colored pencils or crayons Pizza Orders (BLM)		BLM Lesson 22		Notice and Wonder	Preparation Notes

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UNIT 3

Virtual Manipulatives

[Shapes](#)
[Geoboard](#)
[Pattern Blocks](#)
[Counters](#)

Lesson	Required Materials	Required Preparation	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
K.3.1	Materials from previous centers Picture books	Activity 3: Gather materials from: Picture Books , Stages 1-3 Bingo , Stages 1 and 2 Shake and Spill , Stages 1 and 2		MLR8	Which One Doesn't Belong?	Preparation Notes
K.3.2	Materials from previous centers	Activity 3: Gather materials from: Picture Books , Stages 1-3 Bingo , Stages 1 and 2 Shake and Spill , Stages 1 and 2		MLR7	Which One Doesn't Belong?	Preparation Notes
K.3.3	Counters Materials from previous centers Picture books	Activity 2: Cut cards from the blackline master to create a set of cards for each group of 2.	BLM Lesson 3	MLR8	Which One Doesn't Belong?	Preparation Notes

	Shape Cards Grade K (BLM) Which One Stage 1 Gameboard (BLM)	Activity 3: Gather materials from: Picture Books , Stages 1-3 Bingo , Stages 1 and 2 Shake and Spill , Stages 1 and 2				
K.3.4	Materials from previous lesson Materials from previous centers	Activity 2: Each group of 2 needs a set of shape cards from the previous lesson. Activity 3: Gather materials from: Which One , Stage 1 Picture Books , Stages 1-3 Bingo , Stages 1 and 2 Shake and Spill , Stages 1 and 2		MLR8	Choral Count	Preparation Notes
K.3.5	5-frames Collections of objects Colored pencils or crayons Counting mats Materials from previous centers Triangle Sort Cards (BLM)	Activity 1: Each student needs at least 2 different colored crayons or colored pencils. Activity 2: Cut out triangle cards from the blackline master. Each group of 4 needs 1 set of cards. Activity 3:	BLM Lesson 5	MLR8	Which One Doesn't Belong?	Preparation Notes

		Gather materials from: Which One , Stage 1 Picture Books , Stages 1-3 Bingo , Stages 1 and 2 Shake and Spill , Stages 1 and 2				
K.3.6	Materials from previous centers Rectangle Sort Cards (BLM)	Activity 1: Cut out rectangle cards from the blackline master. Each group of 4 needs 1 set of cards. Activity 3: Gather materials from: Counting Collections , Stage 1 Which One , Stage 1 Picture Books , Stages 1-3 Bingo , Stages 1 and 2 Shake and Spill , Stages 1 and 2	BLM Lesson 6	MLR8	What Do You Know About ____?	Preparation Notes
K.3.7	Bags Materials from a previous activity Materials from previous centers Play dough or modeling clay Straws Build Shapes Stage 1 and 2 Cards (BLM)	Activity 1: Each group of 2 needs a bag with at least 6 straws of each size: 2 3/4 inches 1 1/2 inch 1 inch 1/2 inch Activity 2:	BLM Lesson 7	MLR8	Choral Count	Preparation Notes

		<p>Students need the bags of straws from the previous activity.</p> <p>Activity 3: Students need the bags of straws and clay from the previous activity. Gather materials from: Counting Collections, Stage 1 Which One, Stage 1 Picture Books, Stages 1-3 Bingo, Stages 1 and 2 Shake and Spill, Stages 1 and 2</p>				
K.3.8	Materials from previous centers	<p>Activity 3: Gather materials from: Build Shapes, Stage 1 Counting Collections, Stage 1 Which One, Stage 1 Picture Books, Stages 1-3 Bingo, Stages 1 and 2 Shake and Spill, Stages 1 and 2</p>		MLR8	What Do You Know About ____?	Preparation Notes
K.3.9	<p>Clipboards</p> <p>Colored pencils or crayons</p> <p>Materials from a previous lesson</p> <p>Materials from previous centers</p>	<p>Activity 2: Students need the straws from the previous lesson and pipe cleaners, string, or other art supplies.</p>		MLR7	Which One Doesn't Belong?	Preparation Notes

	String	Activity 3: Gather materials from: Build Shapes , Stage 1 and 2 Counting Collections , Stage 1 Which One , Stage 1 Picture Books , Stages 1-3 Bingo , Stages 1 and 2 Shake and Spill , Stages 1 and 2				
K.3.10	Materials from previous centers Pattern blocks Pattern Blocks Stage 4 Recording Sheets (BLM) Pattern Block Puzzles (BLM)	Activity 3: Gather materials from: Geoblocks , Stages 1 and 2 Build Shapes , Stages 1 and 2 Pattern Blocks , Stages 1-4 Less, Same, More , Stages 1-4	BLM Lesson 10	MLR7	Notice and Wonder	Preparation Notes
K.3.11	Colored pencils or crayons Materials from previous centers Pattern blocks	Activity 3: Gather materials from: Geoblocks , Stages 1 and 2 Build Shapes , Stages 1 and 2 Pattern Blocks , Stages 1-4 Less, Same, More , Stages 1-4		MLR8	How Many Do You See?	Preparation Notes
K.3.12	Materials from previous centers Pattern blocks Pattern Blocks Stage 5 Recording Sheet (BLM) Pattern Blocks Stage 5 Mat (BLM)	Activity 3: Gather materials from: Geoblocks , Stages 1 and 2 Build Shapes , Stages 1 and 2 Pattern Blocks , Stages 1-5 Less, Same, More , Stages 1-4	BLM Lesson 12	MLR8	Which One Doesn't Belong?	Preparation Notes

K.3.13	Colored pencils or crayons Materials from previous centers Pattern blocks	Activity 3: Gather materials from: Match Mine , Stage 1 Geoblocks , Stages 1 and 2 Build Shapes , Stages 1 and 2 Pattern Blocks , Stages 1-5 Less, Same, More , Stages 1-4		MLR8	How Many Do You See?	Preparation Notes
K.3.14	Colored pencils, crayons, or markers Construction paper Glue Materials from previous centers Shapes in Art (BLM)	Activity 2: Each student needs cut out paper shapes. Activity 3: Gather materials from: Match Mine , Stage 1 Geoblocks , Stages 1 and 2 Build Shapes , Stages 1 and 2 Pattern Blocks , Stages 1-5 Less, Same, More , Stages 1-4	BLM Lesson 14	MLR7	Notice and Wonder	Preparation Notes
K.3.15	Card stock Paint Paper Paper plates Tape	Activity 1: Make shape stamps from strips of card stock for each group of 4. Pour paint onto plates for each group of 4.		MLR7	Notice and Wonder	Preparation Notes

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UNIT 4

Virtual Manipulatives

[Connecting Cubes](#)
[Pattern blocks](#)
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[5-frame and counters](#)
[Dot Cube](#)

Lesson	Required Materials	Required Preparation	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
K.4.1	Connecting cubes Materials from previous centers Pattern blocks	<p>Activity 1: Each group of 2 needs a bag of up to 10 pattern blocks with a mix of squares and triangles.</p> <p>Activity 2: Each student needs a tower with up to 5 connecting cubes.</p> <p>Activity 3: Gather materials from: Math Libs Match Mine</p>		MLR8	Which One Doesn't Belong?	Preparation Notes

K.4.2	<p>Connecting cubes</p> <p>Materials from previous centers</p> <p>Roll and Add Stage 1 Recording Sheet (BLM)</p> <p>Roll and Add Stage 1 Dot Images Mat (BLM)</p> <p>Dots on 5-Frame Cards (0-5) (BLM)</p> <p>Questions About Us Chart</p> <p>5-Frame Template (BLM)</p>	<p>Warm-up:</p> <p>Cut out enough 5-frames to make a chart with a space for each student to answer the survey question.</p> <p>Activity 1:</p> <p>Cut out a set of cards for each student.</p> <p>Activity 3:</p> <p>Each group of 2 needs 2 connecting cubes.</p> <p>Gather materials from Math Libs, Stage 1</p> <p>Match Mine, Stage 1</p>	BLM Lesson 2	MLR8	Questions About Us	Preparation Notes
K.4.3	Materials from previous centers	<p>Activity 3:</p> <p>Gather materials from:</p> <p>Roll and Add, Stage 1</p> <p>Math Libs, Stage 1</p> <p>Match Mine, Stage 1</p>		MLR8	Choral Count	Preparation Notes
K.4.4	<p>5-frames</p> <p>Connecting cubes</p> <p>Counters</p> <p>Materials from previous centers</p> <p>Number Mat 1–5 (BLM)</p>	<p>Warm-up:</p> <p>Cut out enough 5-frames to make a chart with a space for each student to answer the survey question.</p> <p>Activity 2:</p>	BLM Lesson 4	MLR8	Questions About Us	Preparation Notes

	Questions About Us Chart 5-Frame Template (BLM)	Each group of 2 needs 1 connecting cube. Activity 3: Gather materials from: 5-Frames , Stage 1 Roll and Add , Stage 1 Math Libs , Stage 1 Match Mine , Stage 1				
K.4.5	Connecting cubes Counters Materials from previous centers Number Mat 1–5 (BLM)	Activity 2: Each group of 2 needs 1 connecting cube. Activity 3: Gather materials from: 5-Frames , Stage 1 and 2 Roll and Add , Stage 1 Math Libs , Stage 1 Match Mine , Stage 1	BLM Lesson 5	MLR8	How Many Do You See?	Preparation Notes
K.4.6	Connecting cubes Materials from previous centers Number Mat 1–5 (BLM)	Activity 3: Each group of 2 needs 10 connecting cubes. Gather materials from: 5-Frames , Stages 1 and 2 Build Shapes , Stages 1 and 2 Counting Collections , Stage 1	BLM Lesson 6	MLR8	How Many Do You See?	Preparation Notes
K.4.7	Materials from previous centers	Activity 1:	BLM Lesson 7	MLR8	Notice and Wonder	Preparation Notes

	Two-color counters Playing On the Playground (BLM) Math Stories Stage 2 (BLM) Backgrounds (BLM)	<p>7 objects that represent people are needed, such as plastic toys or dolls. There are also images of people that can be cut out of the provided black line master. The playground work mat is printed in the student workbook and is also included in the black line master. Each student needs a bag of 10 two-color counters.</p> <p>Activity 3: Each group of 2 needs 10 two-color counters. Materials from previous centers: Subtraction Towers, Stage 1 5-Frames, Stages 1 and 2 Build Shapes, Stages 1 and 2 Counting Collections, Stage 1</p>				
K.4.8	Connecting cubes or two-color counters Crayons Materials from previous centers	<p>Activity 3: Gather materials from Math Stories, Stages 1 and 2 Subtraction Towers, Stage 1 5-Frames, Stages 1 and 2 Build Shapes, Stages 1 and 2 Counting Collections, Stage 1</p>		MLR8	Act It Out	Preparation Notes

K.4.9	Connecting cubes or two-color counters Markers Materials from previous centers Math Fingers Stage 3 Recording Sheet (BLM)	Activity 3: Gather materials from: Math Stories , Stages 1 and 2 Subtraction Towers , Stage 1 5-Frames , Stages 1 and 2 Build Shapes , Stages 1 and 2 Counting Collections , Stage 1	BLM Lesson 9	MLR8	How Many Do You See?	Preparation Notes
K.4.10	Connecting cubes Connecting cubes or two-color counters Materials from previous centers Two-color counters Dot Mat 1-5 (dots and 5-frames) (BLM) Bingo Stages 1-3 Gameboard (BLM) Questions About Us Chart 5-Frame Template (BLM)	Warm-up: Cut out enough 5-frames to make a chart with a space for each student to answer the survey question. Activity 3: Each group of 4 students needs 2 connecting cubes. Gather materials from: Math Fingers , Stages 1-3 Math Stories , Stages 1 and 2 Subtraction Towers , Stage 1 5-Frames , Stages 1 and 2 Counting Collections , Stage 1	BLM Lesson 10	MLR8	Questions About Us	Preparation Notes
K.4.11	Connecting cubes or two-color counters Materials from previous centers	Activity 3: Gather materials from: Bingo , Stages 1-3 Math Fingers , Stages 1-3 Math Stories , Stages 1 and 2 Subtraction Towers , Stage 1		MLR8	Which One Doesn't Belong?	Preparation Notes

		5-Frames , Stages 1 and 2 Counting Collections , Stage 1				
K.4.12	Connecting cubes or two-color counters Materials from previous centers	Activity 3: Gather materials from: Bingo , Stages 1-3 Math Fingers , Stages 1-3 Math Stories , Stages 1 and 2 Subtraction Towers , Stage 1 5-Frames , Stages 1 and 2 Counting Collections , Stage 1		MLR8	Choral Count	Preparation Notes
K.4.13	Connecting cubes Materials from previous centers Two-color counters Math Stories Stage 2 Backgrounds (BLM) Questions About Us Chart 5-Frame Template (BLM) Math Stories Stage 2 Recording Sheet (BLM)	Warm-up: Cut out enough 5-frames to make a chart with a space for each student to answer the survey question. Activity 3: Each group of 2 needs 10 two-color counters. Gather materials from: Bingo , Stages 1-3 Math Fingers , Stages 1-3 Math Stories , Stages 1 and 2 Subtraction Towers , Stage 1 5-Frames , Stages 1 and 2 Counting Collections , Stage 1	BLM Lesson 13	MLR2	Questions About Us	Preparation Notes
K.4.14	Connecting cubes or counters	Activity 3: Gather materials from:		MLR8	Choral Count	Preparation Notes

	Materials from previous centers	Number Race , Stage 1 Math Stories , Stages 1 and 2				
K.4.15	Crayons Materials from previous centers Two-color counters Shake and Spill Stage 3 Recording Sheet Kindergarten (BLM)	Activity 3: Each group of 2 needs 10 two-color counters. Each group of 2 needs access to a yellow crayon and a red crayon. Gather materials from: Number Race , Stage 1 Math Stories , Stages 1 and 2	BLM Lesson 15	MLR8	Notice and Wonder	Preparation Notes
K.4.16	Connecting cubes or counters Materials from previous centers Number Mat 1–5 (BLM) Roll and Add Stage 2 Recording Sheet (BLM)	Activity 3: Gather materials from: Roll and Add , Stages 1 and 2 Shake and Spill , Stages 1-3 Number Race , Stage 1 Math Stories , Stages 1 and 2	BLM Lesson 16	MLR8	What Do You Know About ____?	Preparation Notes
K.4.17	Connecting cubes or counters Materials from previous centers Find the Value of Expressions within 10 Stage 1 Recording Sheet (BLM)	Activity 1: Each group of 2 needs 1 connecting cube. Activity 3: Gather materials from: Roll and Add , Stages 1 and 2 Shake and Spill , Stages 1-3 Number Race , Stage 1 Math Stories , Stages 1 and 2	BLM Lesson 17	MLR2	Notice and Wonder	Preparation Notes

	Find the Value of Expressions within 10 Stage 1 Cards (BLM) Add 0 and 1 Mat (BLM)					
K.4.18	Materials from previous centers	Activity 3: Gather materials from: Find the Value of Expressions , Stage 1 Roll and Add , Stages 1 and 2 Shake and Spill , Stages 1-3 Number Race , Stage 1 Math Stories , Stages 1 and 2		MLR8	Choral Count	Preparation Notes

IM K-5 MATH™ by Kendall Hunt <h1>Kindergarten</h1> UNIT 5			Virtual Manipulatives 10-frame and counters Connecting Cubes Pattern blocks Counters 5-frame and counters			
Lesson	Required Materials	Required Preparation	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with

						Presentation Slides
K.5.1	Connecting cubes Materials from previous centers Number cards 0–10 Check It Off Stage 1 Recording Sheet Kindergarten (BLM)	Activity 1: Each student needs 6 connecting cubes. Activity 3: Gather materials from: Find the Value of Expressions , Stage 1 Bingo , Stages 1–3 Shake and Spill , Stages 1–3	BLM Lesson 1	MLR8	Notice and Wonder	Preparation Notes
K.5.2	Crayons Materials from previous centers Pattern blocks	Activity 3: Gather materials from: Check It Off , Stage 1 Find the Value of Expressions , Stage 1 Bingo , Stages 1–3 Shake and Spill , Stages 1–3		MLR8	Which One Doesn't Belong?	Preparation Notes
K.5.3	Connecting cubes Crayons Materials from previous centers Pattern blocks Two-color counters What's Behind My Back Stage 1 Recording Sheet (BLM)	Activity 1: Each group of 2 needs 8 connecting cubes of the same color. Activity 3: Gather materials from: What's Behind My Back? , Stage 1 Check It Off , Stage 1	BLM Lesson 3	MLR8	Notice and Wonder	Preparation Notes

		Find the Value of Expressions , Stage 1 Bingo , Stages 1–3 Shake and Spill , Stages 1–3				
K.5.4	Connecting cubes Materials from previous centers Two-color counters	Activity 3: Gather materials from: What's Behind My Back? , Stage 1 Check It Off , Stage 1 Find the Value of Expressions , Stage 1 Bingo , Stages 1–3 Shake and Spill , Stages 1–3		MLR8	Choral Count	Preparation Notes
K.5.5	Connecting cubes Connecting cubes or two-color counters Materials from previous centers Two-color counters Make or Break Apart Numbers Stage 1 Recording Sheet (BLM) Make or Break Apart Numbers Stage 1 Dot Page (BLM) Make or Break Apart Numbers Stage 1 Number Mat 4 – 9 (BLM)	Activity 3: Gather materials from: What's Behind My Back? , Stage 1 5-frames , Stages 1 and 2	BLM Lesson 5	MLR8	Notice and Wonder	Preparation Notes

K.5.6	Connecting cubes Connecting cubes or two-color counters Materials from previous centers Two-color counters	Activity 3: Gather materials from: What's Behind My Back? , Stage 1 5-frames , Stages 1 and 2 Make or Break Apart Numbers , Stage 1		MLR8	Act It Out	Preparation Notes
K.5.7	Connecting cubes or two-color counters Materials from previous centers Math Stories Stage 3 Pictures (BLM) Math Stories Stage 3 Recording Sheet (BLM)	Activity 3: Gather materials from: What's Behind My Back? , Stage 1 5-frames , Stages 1 and 2 Make or Break Apart Numbers , Stage 1	BLM Lesson 7	MLR8	Which One Doesn't Belong?	Preparation Notes
K.5.8	Connecting cubes or two-color counters Materials from previous centers	Activity 3: Gather materials from: What's Behind My Back? , Stage 1 5-frames , Stages 1 and 2 Make or Break Apart Numbers , Stage 1 Math Stories , Stages 1-3		MLR8	Number Talk	Preparation Notes
K.5.9	Connecting cubes or two-color counters Materials from previous centers	Activity 3: Gather materials from: What's Behind My Back? , Stage 1 5-frames , Stages 1 and 2 Make or Break Apart Numbers , Stage 1 Math Stories , Stages 1-3		MLR7	Choral Count	Preparation Notes

K.5.10	Glue Materials from previous centers Scissors Two-color counters Numbers on Fingers and 10-frames (BLM) 5-Frames to Cut Out (BLM)	Activity 3: Gather materials from: Shake and Spill , Stages 1–3 Counting Collections , Stage 1 Roll and Add , Stages 1 and 2	BLM Lesson 10	MLR8	Notice and Wonder	Preparation Notes
K.5.11	Crayons Materials from previous centers	Activity 2: Each student needs at least 2 different colored crayons. Activity 3: Gather materials from: Shake and Spill , Stages 1–3 Counting Collections , Stage 1 Roll and Add , Stages 1 and 2		MLR8	Notice and Wonder	Preparation Notes
K.5.12	Cups Materials from previous centers Two-color counters	Activity 1: Each group of 2 needs 1 cup and 10 two-color counters. Activity 3: Gather materials from: Shake and Spill , Stages 1–3 Counting Collections , Stage 1 Roll and Add , Stages 1 and 2		MLR8	Which One Doesn't Belong?	Preparation Notes
K.5.13	Connecting cubes	Activity 3: Gather materials from:	BLM Lesson 13	MLR8	How Many Do You See?	Preparation Notes

	Materials from previous centers Two-color counters 10-Frame Standard (BLM) Number Mat 1–9 (BLM) Math Fingers Stage 4 Recording Sheet (BLM)	Math Fingers , Stages 1–4 Shake and Spill , Stages 1–3 Counting Collections , Stage 1 Roll and Add , Stages 1 and 2				
K.5.14	10-frames Connecting cubes Materials from previous centers Two-color counters What's Behind My Back Stage 2 Recording Sheet Kindergarten (BLM)	Activity 1: Each group of 2 need 20 connecting cubes. Activity 3: Gather materials from: What's Behind My Back , Stages 1 and 2 Math Fingers , Stages 1–4 Shake and Spill , Stages 1–3 Counting Collections , Stage 1 Roll and Add , Stages 1 and 2	BLM Lesson 14	MLR8	What Do You Know About ____?	Preparation Notes
K.5.15	Connecting cubes Two-color counters Number Mat 4–10 (BLM)	Activity 1: Each group of 2 needs 1 connecting cube. Activity 2: Each group of 2 needs at least 10 two-color counters.	BLM Lesson 15	MLR8	Notice and Wonder	Preparation Notes

IM K-5 MATH™ by Kendall Hunt Kindergarten UNIT 6			Virtual Manipulatives Connecting Cubes Pattern blocks Counters 5-frame and counters 10-frame and counters			
Lesson	Required Materials	Required Preparation	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
K.6.1	10-frames Collections of objects Colored pencils, crayons, or markers Connecting cubes Counting mats Materials from a previous activity Materials from previous centers Number Mat 11–20 (BLM)	<p>Activity 1: Each student needs a collection of 11–20 objects.</p> <p>Activity 2: Create a pile of 4 connecting cubes to display. Create a pile of 13 connecting cubes to display. Students need the collections of 11–20 objects from the previous activity.</p>	BLM Lesson 1	MLR8	Choral Count	Preparation Notes

	Number Race Stage 2 Recording Sheet for Tracing (BLM)	Activity 3: Gather materials from: Subtraction Towers , Stage 1 5-frames , Stages 1 and 2				
K.6.2	10-frames Collections of objects Counting mats Materials from a previous activity Materials from previous centers	Activity 1: Each student needs a collection of 11-20 objects. Activity 2: Each student needs a collection of 11–20 objects. Students need the 10-frames and counting mats from the previous activity. Activity 3: Gather materials from: Number Race , Stages 1 and 2 Subtraction Towers , Stage 1 5-frames , Stages 1 and 2		MLR8	Number Talk	Preparation Notes
K.6.3	10-frames 5-frames Collections of objects Connecting cubes Counters Counting mats	Warm-up: Create a pile of 18 connecting cubes to display. Activity 1: Each student needs a collection of 11–20 objects.	BLM Lesson 3	MLR8	Notice and Wonder	Preparation Notes

	<p>Materials from previous centers</p> <p>Number cards 0–10</p> <p>Find the Pair Stage 1</p> <p>Recording Sheet (BLM)</p>	<p>Activity 2: Create a pile of 16 connecting cubes to display.</p> <p>Activity 3: Before playing, remove the cards that show numbers greater than 5. Number Race, Stages 1 and 2 Subtraction Towers, Stage 1 5-frames, Stages 1 and 2</p>				
K.6.4	<p>10-frames</p> <p>Collections of objects</p> <p>Connecting cubes</p> <p>Counting mats</p> <p>Materials from a previous activity</p> <p>Materials from previous centers</p> <p>Number Mat 1-10 (BLM)</p>	<p>Activity 1: Each student needs a collection of 11–20 objects.</p> <p>Activity 2: Each student needs a collection of 11–20 objects.</p> <p>Activity 3: Create a tower with 16 cubes for the activity synthesis. Gather materials from: Find the Pair, Stage 1 Number Race, Stages 1 and 2 Subtraction Towers, Stage 1 5-frames, Stages 1 and 2</p>	BLM Lesson 4	MLR8	Notice and Wonder	Preparation Notes

K.6.5	10-frames Counting mats Materials from previous centers Pattern blocks Grab and Count Stage 1 Recording Sheet (BLM)	Activity 1: Make sure numbers 1–20 are posted in the classroom. Activity 2: Make sure numbers 1–20 are posted in the classroom. Activity 3: Each group of 2 needs around 20 pattern blocks. Gather a group of 18 pattern blocks for the activity synthesis. Gather materials from: Find the Pair , Stage 1 Tower Build , Stages 1 and 2	BLM Lesson 5	MLR8	Estimation Exploration	Preparation Notes
K.6.6	10-frames Colored pencils, crayons, or markers Connecting cubes Counters Materials from previous centers Number Race Stage 2 Recording Sheet for Writing (BLM) Number Mat 11–20 (BLM)	Activity 3: Each group needs 1 connecting cube. Gather materials from: Grab and Count , Stage 1 Find the Pair , Stage 1 Tower Build , Stages 1 and 2	BLM Lesson 6	MLR8	How Many Do You See?	Preparation Notes

K.6.7	<p>Materials from previous centers</p> <p>Two-color counters</p> <p>Reference Sheet Numbers 11–20 with 10-frames (BLM)</p> <p>10-frame and More Dots Cards (BLM)</p> <p>Number Cards 1–9 (BLM)</p>	<p>Activity 1: Each student needs 1 card from the blackline master.</p> <p>Activity 2: Create a set of cards from the blackline master for each group of 2.</p> <p>Activity 3: Gather materials from: Number Race, Stages 1 and 2 Grab and Count, Stage 1 Find the Pair, Stage 1 Tower Build, Stages 1 and 2</p>	BLM Lesson 7	MLR8	Choral Count	Preparation Notes
K.6.8	<p>Glue or tape</p> <p>Scissors</p> <p>Two-color counters</p> <p>Bingo Stage 4 Gameboard (BLM)</p> <p>10-frame and More Dots Cards (BLM)</p> <p>Make Number Cards (BLM)</p> <p>Number Cards 11–19 (BLM)</p>	<p>Activity 1: Create a set of 10-frame and More Dot Cards for each student.</p> <p>Activity 3: Create a set of cards from the blackline master for each group of 4.</p>	BLM Lesson 8	MLR8	How Many Do You See?	Preparation Notes
K.6.9	<p>Connecting cubes</p> <p>Materials from previous centers</p> <p>Two-color counters</p>	<p>Activity 1: Create a set of cards from the blackline master for each group of 4.</p>	BLM Lesson 9	MLR8	Choral Count	Preparation Notes

	<p>Numbers and Expressions Cards (BLM)</p> <p>Make or Break Apart Numbers Stage 2</p> <p>Gameboards (BLM)</p> <p>Make or Break Apart Numbers Stage 2 Number Mat 11-19 (BLM)</p> <p>Make or Break Apart Numbers Stage 2</p> <p>Recording Sheet (BLM)</p>	<p>Activity 3:</p> <p>Gather materials from:</p> <p>Bingo, Stages 1-4</p> <p>Number Race, Stages 1 and 2</p> <p>Grab and Count, Stage 1</p> <p>Tower Build, Stages 1 and 2</p>				
K.6.10	<p>10-frames</p> <p>Materials from previous centers</p> <p>Two-color counters</p>	<p>Activity 3:</p> <p>Gather materials from:</p> <p>Make or Break Apart Numbers, Stages 1 and 2</p> <p>Bingo, Stages 1-4</p> <p>Number Race, Stages 1 and 2</p> <p>Grab and Count, Stage 1</p> <p>Tower Build, Stages 1 and 2</p>		MLR8	What Do You Know About ____?	Preparation Notes
K.6.11	<p>Colored pencils, crayons, or markers</p> <p>Materials from previous centers</p>	<p>Activity 2:</p> <p>Students need access to at least 2 different colored crayons, colored pencils, or markers.</p> <p>Activity 3:</p> <p>Gather materials from:</p> <p>Find the Value of Expressions, Stage 1</p>		MLR8	Choral Count	Preparation Notes

		Make or Break Apart Numbers , Stages 1 and 2 Bingo , Stages 1-4				
K.6.12	10-frames Connecting cubes Connecting cubes or counters Materials from previous centers Number cards 0–10 Find the Pair Stage 2 Recording Sheet (BLM)	Activity 3: Gather materials from: Find the Value of Expressions , Stage 1 Make or Break Apart Numbers , Stages 1 and 2 Bingo , Stages 1-4	BLM Lesson 12	MLR8	Which One Doesn't Belong?	Preparation Notes
K.6.13	Colored pencils, crayons, or markers Fingerprint Animals on the 10-frame (BLM)	Activity 1: Cut each blackline master in half. Each group of 3 needs 9 half-sheets. Each group of 3 needs an ink pad.	BLM Lesson 13	MLR8	How Many Do You See?	Preparation Notes

IM K-5 MATH™ by Kendall Hunt <h1>Kindergarten</h1> UNIT 7			Virtual Manipulatives <div> Connecting Cubes Pattern blocks Counters 10-frame and counters Geoblocks Virtual Solid Shapes </div>			
Lesson	Required Materials	Required Preparation	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides
K.7.1	Materials from previous centers Pattern blocks Squares Squares Squares (BLM) Shape Puzzle (BLM)	<p>Activity 1: Each student needs at least 10 square pattern blocks.</p> <p>Activity 2: Each group of 2 needs at least 16 triangle pattern blocks and 8 rhombus pattern blocks.</p> <p>Activity 3: Gather materials from: Geoblocks, Stages 1 and 2 Grab and Count, Stage 1 Find the Pair, Stages 1 and 2 </p>	BLM Lesson 1	MLR8	How Many Do You See?	Preparation Notes

K.7.2	Materials from previous centers Pattern blocks Make a Y (BLM) Quack Quack (BLM) Pattern Blocks Stage 6 Mat (BLM)	Activity 1: To display during the activity synthesis, create: a shape with 6 green triangle pattern blocks and 2 red trapezoid pattern blocks. a shape with 6 blue rhombus pattern blocks and 7 red trapezoid pattern blocks. Activity 3: Gather materials from: Geoblocks , Stages 1 and 2 Grab and Count , Stage 1 Find the Pair , Stages 1 and 2	BLM Lesson 2	MLR8	Choral Count	Preparation Notes
K.7.3	Colored pencils, crayons, or markers Connecting cubes or two-color counters Materials from previous centers Pattern blocks Pattern Blocks Stage 7 Recording Sheet (BLM)	Activity 3: Gather materials from: Geoblocks , Stages 1 and 2 Grab and Count , Stage 1 Find the Pair , Stages 1 and 2	BLM Lesson 3	MLR7	Notice and Wonder	Preparation Notes
K.7.4	Materials from previous centers Pattern blocks	Activity 1: Create a shape with 1 red trapezoid pattern block and 4		MLR8	Which One Doesn't Belong?	Preparation Notes

		green triangle pattern blocks to display in the activity synthesis.				
		Activity 3: Gather materials from: Pattern Blocks , Stages 1-7 Geoblocks , Stages 1 and 2 Grab and Count , Stage 1 Find the Pair , Stages 1 and 2				
K.7.5	10-frames Connecting cubes or two-color counters Materials from previous centers Pattern blocks	Activity 3: Gather materials from: Pattern Blocks , Stages 1-7 Geoblocks , Stages 1 and 2 Grab and Count , Stage 1 Find the Pair , Stages 1 and 2		MLR8	Notice and Wonder	Preparation Notes
K.7.6	10-frames Connecting cubes or two-color counters Cups Pattern blocks Two-color counters Book of 10 (BLM) Shake and Spill Stage 4 (BLM) Recording Sheet Kindergarten (BLM)	Activity 2: Create a book for each student from the blackline master. Create a chart labeled with “trapezoids” and “rhombuses” (see preparation notes link for image)	BLM Lesson 6	MLR8	Choral Count	Preparation Notes
K.7.7	Clay Geoblocks	Activity 1:	BLM Lesson 7	MLR8	Which One Doesn't Belong?	Preparation Notes

	<p>Materials from previous centers</p> <p>Solid shapes</p> <p>Flat Shapes Cards K (BLM)</p>	<p>Each student needs a piece of clay.</p> <p>Gather a cone and cylinder to display.</p> <p>Activity 2:</p> <p>Each group of 2 needs a set of solid shapes and a set of cards.</p> <p>Activity 3:</p> <p>Gather materials from:</p> <p>Counting Collections, Stage 1</p> <p>Match Mine, Stage 1</p> <p>Shake and Spill, Stages 1-4</p>				
K.7.8	<p>Materials from previous centers</p>	<p>Activity 1:</p> <p>Prepare 2 boxes, one filled with books, labeled “1,” and one empty box, labeled “2.”</p> <p>Prepare 2 closed bags, one containing a few crayons, labeled “1,” and one filled with rocks or other heavy objects, labeled “2.”</p> <p>Activity 2:</p> <p>Gather assorted classroom objects for students to compare.</p>		MLR8	<p>Notice and Wonder</p>	<p>Preparation Notes</p>

		<p>Activity 3: Gather materials from: Counting Collections, Stage 1 Match Mine, Stage 1 Shake and Spill, Stages 1-4</p>				
K.7.9	<p>Containers of different sizes Materials from previous centers Sticky notes</p>	<p>Activity 1: Gather a larger pitcher and a small cup to display during the launch. Gather 2 cups with capacities that are not easy to compare visually, such as a tall stemmed glass and a short, wide cup for the activity.</p> <p>Activity 2: Each group of 4 students needs 2 cups or containers that are not easy to compare the capacity visually, such as a short, wide container and a tall, thin container. Each group of 4 students needs 1 small paper cup, a container filled with water, and a plastic or foil tray.</p> <p>Activity 3:</p>		MLR8	Choral Count	Preparation Notes

		Gather materials from: Counting Collections , Stage 1 Match Mine , Stage 1 Shake and Spill , Stages 1-4				
K.7.10	Clay Geoblocks Materials from a previous lesson Materials from previous centers Solid shapes Examples of Flat Shapes Display Cards (BLM)	<p>Activity 1: Each group of 2 students needs solid shapes and a set of Flat Shapes Cards from a previous lesson. Gather a ball, a can, a number cube, and an ice cream cone and cut out 1 set of Examples of Flat Shapes cards to display.</p> <p>Activity 2: Each group of 2 students needs 4–6 different solid shapes.</p> <p>Activity 3: Gather materials from: Geoblocks, Stages 1-3 Counting Collections, Stage 1 Match Mine, Stage 1 Shake and Spill, Stages 1-4</p>	BLM Lesson 10	MLR8	Number Talk	Preparation Notes
K.7.11	Bags Geoblocks Materials from a previous activity	<p>Warm-up: Gather a cylinder to display.</p> <p>Activity 1:</p>		MLR8	What Do You Know About ____?	Preparation Notes

	<p>Materials from previous centers</p> <p>Solid shapes</p>	<p>Each group of 2 students needs at least 6-8 solid shapes. Gather a cone, a cube, and two different cylinders to display in the activity synthesis.</p> <p>Activity 2: Each group of 2 students needs at least 6-8 solid shapes from the previous activity.</p> <p>Activity 3: Place 4-6 different solid shapes into a bag that is not see-through for each group of 2 students. Gather materials from: Counting Collections, Stage 1 Match Mine, Stage 1 Shake and Spill, Stages 1-4</p>				
K.7.12	<p>Clay</p> <p>Connecting cubes</p> <p>Geoblocks</p> <p>Materials from previous centers</p> <p>Solid shapes</p> <p>Sticks</p>	<p>Warm-up: Gather and sort solid shapes in 2 groups to display: 4 rectangular prisms, including a cube, in one group and 4 other solid shapes in another group.</p> <p>Activity 1:</p>		MLR7	Notice and Wonder	Preparation Notes

		<p>Gather a variety of rectangular prisms, including cubes, to display.</p> <p>Use connecting cubes to create a shape that is not a rectangular prism during the activity synthesis, similar to this image: Prism made of connecting cubes (see Preparation Notes link for image)</p> <p>Activity 2: Each group of 2 students needs a variety of solid shapes and at least 12 sticks in 2 different lengths.</p> <p>Activity 3: Gather materials from: Build Shapes, Stages 1-3 Geoblocks, Stages 1-4 Counting Collections, Stage 1 Match Mine, Stage 1 Shake and Spill, Stages 1-4</p>				
K.7.13	Clay Geoblocks Materials from previous centers	<p>Activity 3:</p> <p>Gather materials from: Build Shapes, Stages 1-3</p>		MLR8	Notice and Wonder	Preparation Notes

	Solid shapes	Geoblocks , Stages 1-4 Counting Collections , Stage 1 Match Mine , Stage 1 Shake and Spill , Stages 1-4				
K.7.14	Folders Geoblocks Materials from previous centers Solid shapes	Activity 2: Create a building with 6–8 solid shapes to display and have a way to hide it from students' view. Activity 3: Build Shapes , Stages 1-3 Geoblocks , Stages 1-4 Counting Collections , Stage 1 Shake and Spill , Stages 1-4		MLR2	Number Talk	Preparation Notes
K.7.15	10-frames Connecting cubes Geoblocks Materials from previous centers Solid shapes	Warm-up: Make a tower with 16 connecting cubes. Activity 2: Each group of 4 students needs 6 cubes, 6 cylinders, and 6 cones. Activity 3: Gather materials from: Build Shapes , Stages 1-3 Geoblocks , Stages 1-4		MLR8	Estimation Exploration	Preparation Notes

		Counting Collections , Stage 1 Match Mine , Stage 1 Shake and Spill , Stages 1-4				
K.7.16	Geoblocks Materials from previous centers Solid shapes	Activity 3: Gather materials from: Build Shapes , Stages 1-3 Geoblocks , Stages 1-4 Counting Collections , Stage 1 Match Mine , Stage 1 and 2 Shake and Spill , Stages 1-4		MLR8	Choral Count	Preparation Notes

IM K-5 MATH™ by Kendall Hunt <h1>Kindergarten</h1> UNIT 8			Virtual Manipulatives <div> Connecting Cubes Pattern blocks Counters 10-frame and counters Geoblocks Virtual Solid Shapes </div>			
Lesson	Required Materials	Required Preparation	Blackline Masters	MLRs	Instructional Routines	Link to Preparation Notes with Presentation Slides

K.8.1	<p>Bags</p> <p>Collections of objects</p> <p>Materials from a previous activity</p> <p>Materials from previous centers</p>	<p>Activity 1: Each student needs a bag with 2 different colored beads or other objects, with up to 10 of each color.</p> <p>Activity 2: Students need the bags of beads and their representations from the previous activity.</p> <p>Activity 3: Gather materials from: Less, Same, More Math Fingers Tower Build Math Stories Which One</p>		MLR8	Choral Count	Preparation Notes
K.8.2	<p>10-frames</p> <p>Collections of objects</p> <p>Materials from a previous activity</p> <p>Materials from previous centers</p>	<p>Activity 1: Each student needs a collection of 11–20 objects.</p> <p>Activity 2: Students need their collection of objects and representation from the previous activity.</p> <p>Activity 3:</p>		MLR8	How Many Do You See?	Preparation Notes

		Gather materials from: Less, Same, More Math Fingers Tower Build Math Stories Which One				
K.8.3	10-frames Connecting cubes Materials from previous centers	Activity 3: Gather materials from: Less, Same, More Math Fingers Tower Build Math Stories Which One		MLR8	Choral Count	Preparation Notes
K.8.4	Colored pencils, crayons, or markers Connecting cubes Materials from a previous activity Materials from previous centers Two-color counters Number Mat 1-20 (BLM) One More, One Less Mat (BLM)	Activity 1: Each group of 2 needs 1 connecting cube and at least 20 two-color counters. Activity 2: Each group of 2 needs the number mat, two-color counters, and the connecting cube from the previous activity. Each group 2 also needs crayons and a copy of the 1 more, 1 less mat. Activity 3:	BLM Lesson 4	MLR8	How Many Do You See?	Preparation Notes

		Gather materials from: Less, Same, More Math Fingers Tower Build Math Stories Which One				
K.8.5	Materials from previous centers Number Clues (BLM) Number Cards 1-20 (BLM)	Activity 1: Create a set of cards from the blackline master for each group of 4. Activity 2: Each group of 2 needs one card from the blackline master. Display large numbers 1 to 20 around the room. The numbers may be displayed in order, or the sequence of numbers can be mixed up for more of a challenge. Activity 3: Gather materials from: Less, Same, More Math Fingers Tower Build Math Stories Which One	BLM Lesson 5	MLR8	Choral Count	Preparation Notes

K.8.6	Clipboards Materials from previous centers Paper	<p>Activity 1: Gather a variety of number books for the class to look through.</p> <p>Activity 3: Gather materials from: Picture Books Find the Pair Math Stories Build Shapes Make or Break Apart Numbers </p>		MLR8	Notice and Wonder	Preparation Notes
K.8.7	Colored pencils, crayons, or markers Materials from a previous activity Number Book (BLM)	<p>Activity 1: Assemble a number book for each student by copying and stapling the pages in the blackline master.</p> <p>Activity 2: Students need the number book that they created in the previous activity.</p>	BLM Lesson 7	MLR8	How Many Do You See?	Preparation Notes
K.8.8	10-frames Clipboards Geoblocks Solid shapes Find Someone Who Recording Sheet (BLM)		BLM Lesson 8	MLR8	Which One Doesn't Belong?	Preparation Notes

K.8.9	10-frames Clipboards Connecting cubes Geoblocks Paper Pattern blocks Solid shapes Two-color counters	Activity 2: Students need access to all math tools that they have used throughout the year.		MLR8	What Do You Know About ____?	Preparation Notes
K.8.10	Clipboards Materials from previous centers Paper	Activity 3: Gather materials from: Picture Books Find the Pair Math Stories Build Shapes Make or Break Apart Numbers		MLR8	Notice and Wonder	Preparation Notes
K.8.11	Connecting cubes or two-color counters Tools for creating a visual display			MLR8	Number Talk	Preparation Notes
K.8.12	Colored pencils, crayons, or markers Materials from a previous activity Materials from previous centers Dot Image Cards (BLM)	Activity 1: Create a set of cards from the blackline master for each student. Activity 2: Each student needs the dot image cards from the previous activity.	BLM Lesson 12	MLR8	How Many Do You See?	Preparation Notes

		<p>Activity 3: Gather materials from: 5-frames Roll and Add Bingo Geoblocks Find the Value of Expressions</p>				
K.8.13	<p>Materials from a previous activity Materials from previous centers Domino Cards (BLM) Sorting Chart 1-5 (BLM)</p>	<p>Activity 1: Create a set of domino cards from the blackline master for each group of 2. If actual dominoes are available, give students the dominoes which show a total of 5 or less.</p> <p>Activity 2: Each group of 2 needs the domino cards from the previous activity.</p> <p>Activity 3: Gather materials from: 5-frames Roll and Add Bingo Geoblocks Find the Value of Expressions</p>	BLM Lesson 13	MLR8	<p>Notice and Wonder</p>	Preparation Notes

K.8.14	Colored pencils, crayons, or markers Materials from previous centers Sorting Chart 1-5 (BLM) Expression Cards (BLM)	<p>Activity 2:</p> <p>Create a set of cards from the blackline master for each group of 2.</p> <p>Activity 3:</p> <p>Gather materials from: 5-frames Roll and Add Bingo Geoblocks Find the Value of Expressions </p>	BLM Lesson 14	MLR8	Choral Count	Preparation Notes
K.8.15	Materials from a previous lesson Materials from previous centers	<p>Activity 1:</p> <p>Each student needs one card from the Expression Cards set used in a previous lesson. Label each corner of the classroom with a large number: 2, 3, 4, and 5.</p> <p>Activity 2:</p> <p>Each group of 2 needs a set of Expression Cards from a previous lesson.</p> <p>Activity 3:</p> <p>Gather materials from:</p>		MLR8	Which One Doesn't Belong?	Preparation Notes

		5-frames Roll and Add Bingo Geoblocks Find the Value of Expressions				
K.8.16	Connecting cubes or two-color counters Cups Materials from previous centers Two-color counters Shake and Spill Stage 4 Recording Sheet Kindergarten (BLM)	Activity 3: Gather materials from: 5-frames Roll and Add Bingo Geoblocks Find the Value of Expressions	BLM Lesson 16	MLR8	How Many Do You See?	Preparation Notes
K.8.17	Materials from a previous activity Materials from previous centers Pipe cleaners	Activity 1: Each student needs a pipe cleaner and 10 beads, 5 beads of one color and 5 beads of another color. Activity 2: Each student needs the bead tool that they created in the previous activity. Activity 3: Gather materials from: Shake and Spill		MLR8	Estimation Exploration	Preparation Notes

		Number Race Grab and Count What's Behind My Back? Pattern Blocks				
K.8.18	10-frames Connecting cubes or two-color counters Materials from a previous activity Materials from a previous lesson Materials from previous centers	Activity 1: Students can use their bead tool from a previous lesson. Activity 2: Students can use their bead tool from a previous lesson. Create a chart displaying solutions to be used during the lesson synthesis. (See Preparation Notes link for chart) Activity 3: Gather materials from: Shake and Spill Number Race Grab and Count What's Behind My Back? Pattern Blocks		MLR8	Number Talk	Preparation Notes
K.8.19	10-frames Colored pencils, crayons, or markers Connecting cubes or two-color counters	Activity 1: Students can use their bead tool from a previous lesson. Activity 2:		MLR8	How Many Do You See?	Preparation Notes

	Materials from a previous lesson Materials from previous centers	Students can use their bead tool from a previous lesson. Activity 3: Gather materials from: Shake and Spill Number Race Grab and Count What's Behind My Back? Pattern Blocks				
K.8.20	Materials from previous centers	Activity 3: Gather materials from: Shake and Spill Number Race Grab and Count What's Behind My Back? Pattern Blocks		MLR8	Estimation Exploration	Preparation Notes
K.8.21	10-frames Collections of objects Connecting cubes or two-color counters Materials from a previous lesson Materials from previous centers	Activity 1: Each group of 2 needs access to at least 2 collections of 11–19 objects. Activity 2: Students can use their bead tool from a previous lesson. Activity 3: Gather materials from:		MLR8	Which One Doesn't Belong?	Preparation Notes

		Shake and Spill Number Race Grab and Count What's Behind My Back? Pattern Blocks				
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