Grade 3 Unit 2 Bridges Preparation List Module 1–4 Introduction to Multiplication

*Unit 2 Module 1:

Multiplication in Context

Module 1 Session 1 The Pet Store Preparation:

Materials

Copies	Kit Materials	Classroom Materials
Problems & Investigations	The Pet Store	
TM T1 The Pet Store	 colored tiles (optional, for sup- port suggestion) 	 student math journals chart paper
Daily Practice		
SB 34 Addition & Subtraction: Mixed Review		

Vocabulary

An asterisk [*] identifies those terms for which Word Resource Cards are available. columns groups of rows

HC – Home Connection, SB – Student Book, TM – Teacher Master Copy instructions are located at the top of each teacher master.

• Study The Pet Store Teacher Master. Think about what students will see when they look at this picture. Think about how to scaffold what they say so that their observations will lay a foundation for early multiplication skills and strategies. For example, if a student says that she sees a bunch of dog bones, ask her how the dog bones are arranged, how many rows and columns she sees, or how she might figure out how many there are in all. Think about how to write student observations in a way that deepens understanding. If a student says, "I see 3 containers with 2 chew toys in each one," you could write "3 groups of 2" and "2 + 2 + 2 = 6" and "2, 4, 6." As you are not yet introducing the multiplication sign, do not write 2 × 3 or 3 × 2 right now.

• Post a few sheets of chart paper where everyone can see, near the projector or board.

• Students are working in partners today. You may want to plan these partnerships ahead of time or have an easy system for creating them, such as pulling names out of a bag.

Module 1 Session 2 Unit 2 Pre-Assessment Preparation: Materials

Copies	Kit Materials	Classroom Materials
Problem String Group	os of Stamps	·
TM T2 Postage Stamps TM T3 Groups of Stamps		 student math journals a piece of paper to mask parts of the teacher masters a few postage stamps, preferably of different costs and from different places (optional)
Assessment Unit 2 Pre	e-Assessment	
TM T4–T6 Unit 2 Pre-Assessment		scratch paper
Home Connection	20. 20.	
HC 21–22 The Pet Store		
Daily Practice	20 -	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
SB 35 Missing Numbers Fill-In		

HC – Home Connection, SB – Student Book, TM – Teacher Master Copy instructions are located at the top of each teacher master.

• Note that you will need to score the Unit 2 Pre-Assessment before Session 3. (See XX-XX in the assessment Guide for scoring suggestions.) If you cannot mark the pre-assessment by Session 3, make room for reflection time in another session in this module.

Module 1 Session 3 Stamps & Assessment Reflections Preparation: Materials

Copies	Kit Materials	Classroom Materials
Problems & Investigations	Stamps	
SB 36-37* More Groups of Stamps TM T7 Stamps Forum Planner		Groups of Stamps Teacher Master (from Session 2) markers
Assessment Assessment Ref	lections	
TM T8 Unit 2 Pre-Assessment Student Reflection Sheet		scored Unit 2 Pre-Assessments (completed in Session 2)
Daily Practice		
SB 38 Alexandra's Garden		

HC - Home Connection, SB - Student Book, TM - Teacher Master

Copy instructions are located at the top of each teacher master.

* Run several copies of these pages for display.

• Have students' Unit 2 Pre-Assessments marked and ready to hand back to them. If you cannot have the pre-assessments ready for this session, mark them in the next few days and find time for students to reflect on them before the end of Module 1.

• Read Session 4 to see how students might share their work from today's session. Before tomorrow's forum, use the Stamps Forum Planner to help select students to share their work.

Copies	Kit Materials	Classroom Materials
Math Forum Stamps		
		 Student Book pages More Groups of Stamps (SB 36–37, completed in Session 3) Stamps Forum Planner (TM T7 with notes from Session 3)
Problem String Stamps	& Doubling	
TM T9 Even More Groups of Stamps	ŝ	 Student Book pages More Groups of Stamps (SB 36–37, completed in Session 3) student math journals a piece of paper to mask por- tions of the teacher masters
Home Connection		61.0
HC 23–24 Stamp Challenges		
Daily Practice		
SB 39 Fruit & Stamps		

Module 1 Session 4 Stamps Preparation: Materials

Vocabulary

An asterisk [*] indicates those terms for which Word Resource Cards are available. efficient

HC – Home Connection, SB – Student Book, TM – Teacher Master Copy instructions are located at the top of each teacher master.

• Today you will conduct another forum on students' work on the More Groups of Stamps Student Book page. Look over student work and decide which students should present today. As usual, when planning a forum, include at least one example that allows all students a point of entry to the discussion.

• Then, try to include strategies that will stretch and challenge student thinking. Look for work that includes a strategy that would elevate other students' understanding of and thinking about multiplication.

Module 1 Session 5 Seascape Problems Preparation: Materials

Copies	Kit Materials	Classroom Materials
Work Places Introducing Work Place 2/	A Loops & Groups	
TM T10 Work Place Guide 2A Loops & Groups TM T11 2A Loops & Groups Record Sheet TM T12 Unit 2 Work Place Log SB 40* Work Place Instructions 2A Loops & Groups	 dice numbered 1–6 (half- class set) 	
Problems & Investigations Seascape:	How Long? How Tall?	
TM T13 Seascape A TM T14 Seascape B TM T15 Seascape Forum Planner SB 41 Seascape A: How Long? How Tall? SB 42 Seascape B: How Long? How Tall?		 student math journals a piece of paper to mask portions of the teacher masters scrap paper pictures of coral reef eco- systems or coral reef plants and animals (optional)
Daily Practice	-	
SB 43 Coral Reef Challenges		

HC - Home Connection, SB - Student Book, TM - Teacher Master

Copy instructions are located at the top of each teacher master.

* Run 1 copy of this page to be kept in a clear plastic sleeve in the Work Place bin.

 In today's session, you'll introduce Work Place 2A Loops & Groups, which replaces Work Place 1C Blast Off to Space. Before this session, you should review the Work Place Guide and Work Place Instructions. Make copies of the 2A Loops & Groups Record Sheet for use today, and store the rest in the Work Place 2A Loops & Groups bin, along with the materials listed on the guide. The Work Place Guide also includes suggestions for differentiating the game to meet students' needs.

• Plan on introducing the Work Place quickly in order to leave plenty of time for the seascape investigation. Try to wrap up the game instruction after the first 15 or 20 minutes of the session.

• Study Seascapes A and B. Think about how you (or your students) could use the length of the clownfish (4 inches) to find the length or height of other living things in the picture. What tools could you create to make your work more

efficient? Think about what will students do with this challenge and how you can support and challenge them as they work.

• Read Session 6 to see how students might share their work from todays session. Before tomorrow's forum, use the Seascape Forum Planner to help select students to share their work.

• Before Session 6, you will need to staple the Unit 2 Work Place Log to the backs of students' Work Place folders, leaving the Unit 1 Work Place Log in place on the fronts.

Note The Seascape Teacher Masters are available in full color in digital format. If you would like to display the Seascapes in color, retrieve the PDF for the Unit 2, Module 1 Teacher Masters from the Bridges Educator site.



A tip I found useful last year was to print out several Chloe the Clownfish and put her on the top of a popsicle stick. That way it is easier to use her since she is so small. We just glued her to the top and the kids found it very useful.

Module 1 Session 6 Seascape Forum Preparation: Materials

Copies	Kit Materials	Classroom Materials
Math Forum How Long? He	ow Tall?	
		 Seascapes A and B (TM T13 & T14 from Session 5) Seascape Forum Planner (TM T15, with notes from Session 5) Student Book pages Seascape A: How Long? How Tall? and Seascape B: How Long? How Tall? (SB 41–42, completed in Session 5)
Work Places in Use		
1D Subtraction Bingo (introduced Uni 1E Carrot Grab (introduced Uni 1F Rabbit Tracks (introduced U 1G Target One Hundred (introduced U 1H Anything but Five (introduced U 2A Loops & Groups (introduced U)	ced Unit 1, Module 2, Ses it 1, Module 3, Session 4) nit 1, Module 4, Session duced Unit 1, Module 4, S ced in Unit 1, Module 4, S d in Unit 2, Module 1, Ses	ssion 4) 1) Session 3) Session 5) ssion 5)
Home Connection		
HC 25-26 Leaves & Flower Petals		
Daily Practice	9.1. 9.1.	
SB 44 If You Bake a Cupcake for a Kid		

HC – Home Connection, SB – Student Book, TM – Teacher Master Copy instructions are located at the top of each teacher master.

• Students will visit Work Places today. Beforehand, make sure the Unit 2 Work Place Log is stapled to the back of students' Work Place folders, with the Unit 1 Work Place Log still in place on the fronts. Double-check the bins for the available Work Places to make sure there are enough record sheets.

• Look over the students' work from the previous session, and use the Seascape Forum Planner Teacher Master to make notes about their strategies. Think about which student work should be showcased in the forum, and use the last column on the planner to indicate the order in which you'll have students share their work in today's forum. Use your observations about student understanding to help guide your decisions.

• If most students are challenged by the problems and using less efficient strategies, choose examples that will help them move toward more efficient strategies, but not those so complex as using partial products or proportional relationships.

• If most students are working comfortably and using a variety of efficient strategies, choose examples that feature more sophisticated strategies, such as using proportional relationships, doubling and halving, and partial products. In the forum, have students discuss the discoveries they made about the relationships between the numbers.

• If students' work shows a wide range of ability, select examples that reflect that range. Have students share a variety of strategies, and build your discussion during the forum to support students across the spectrum as they deepen their understanding and expand their use of strategies.

• If students are exploring the multiplication symbol (×), be sure to have these students share their learning with the rest of the class.

Reflect on the Session 4 math forum: think about how to recognize students for what went well and how to make the changes you would like to see. A quick discussion just before the forum about what went well and what students need to work on often makes a significant difference in how the forum will go.

<u>*Unit 2 Module 2:</u> <u>Multiplying with Arrays & Number Lines</u>

Unit 2 Module 2 Session 1 Count-Arounds Preparation: Materials

Copies	Kit Materials	Classroom Materials
Problems & Investigations	s Count-Arounds	
Assessment Multiplication	Checkpoint	
TM T1 Multiplication Checkpoint	 One Hundred Grid (optional, for support suggestions) colored tiles (optional, for sup- port suggestion) 	
Work Places in Use		
1D Subtraction Bingo (introduc 1E Carrot Grab (introduced Un 1F Rabbit Tracks (introduced U 1G Target One Hundred (introduced 1H Anything but Five (introduced 2A Loops & Groups (introduced)	ced Unit 1, Module 2, Session 4) it 1, Module 3, Session 4) Init 1, Module 4, Session 1) duced Unit 1, Module 4, Session 3) ced in Unit 1, Module 4, Session 5) d in Unit 2, Module 1, Session 5)	
Daily Practice		
SB 45 Toby Goes Shopping		

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• Post a few sheets of chart paper in your discussion area, or plan to use a whiteboard nearby. You will use it to record all of the multiples of 3, 6, and 9 through 90 during the count-arounds at the beginning of the session.

• Where all students can see it, write the list of Work Places that are available to students today. You can write out just the numbers, or write the full names if you have time.

Module 2 Session 2 Cube Trains & Multiples Strips Preparation: Materials

Copies	Kit Materials	Classroom Materials
Problems & Investiga	ations Count-Arounds	
		 chart paper, a few sheets (see Preparation)
Problems & Investiga	ations Cube Trains & Multiples Strips	
	 30" strip of adding machine tape a strip of adding machine tape for each student pair (see Preparation) 	 scissors student math journals interlocking cubes such as Unifix cubes, 1 container for each student pair (see Preparation)
Home Connection		
HC 27–28 Skip-Counting & More		
Daily Practice		
SB 46 Seascape Challenges		

Vocabulary

An asterisk [*] identifies those terms for which Word Resource Cards are available.

equation* factor* measuring strip multiple* product*

HC – Home Connection, SB – Student Book, TM – Teacher Master Copy instructions are located at the top of each teacher master.

• Post a few sheets of chart paper in your discussion area or plan to use a nearby whiteboard to record the count-arounds.

• Create a measuring strip of 40 interlocking cubes using 2 different colors. Alternate colors in groups of 4 so that you have 4 of one color followed by 4 of the next color. Hang or tape your measuring strip on a whiteboard in or near the discussion area, leaving room underneath to add a 30" strip of adding machine tape later in the lesson.

• Assign partners and decide which number (between 2 and 10) each partnership will work with. Each student pair will build a measuring strip and create matching paper number lines to show the multiples of a number between 2 and 10. Think about assigning students who work more slowly a smaller number and students who work more quickly a larger number. If you have more than 18 students in your room, it's fine to have more than one pair work on a particular multiple. For instance, you might have three student pairs each make a measuring strip and paper number line for 2s, three more student pairs each make a strip and number line for 3s, and so on.

• Divide all of the interlocking cubes into containers. You'll need 1 container for every pair of students. Each container should contain equal numbers of cubes in

two different colors. You'll need containers with the following total numbers of cubes: 20, 30, 40, 50, 60, 70, 80, 90, and 100. The numbers you assign to each pair of students will determine how many containers you should prepare with each total number of cubes.

• Cut a strip of adding machine tape for each student pair. Pairs working with multiples of 2 will need about 20 inches, pairs working with multiplies of 3 need 30 inches, pairs working with multiples of 4 need 40 inches and so on.

• During the lesson, you will post 9 number lines on the wall, each directly below the one above it. The shortest of the 9 lines will be 15" long. The longest will be 75" long. Have space and necessary materials prepared.

• Leave a number line for each multiple, 2-10, posted on the board at the end of this session. Collect and save any extra number lines for use in Module 2 and with individuals later in the year.

• Count around by 2s up to 80. Then, have the students do a count-around for 4s up to 80, just as they did for 2s. Record the multiples of 4 under the multiples of 2. At the end of this count-around, ask students what they notice. Do the count-around with 8s up to 80.



• Tell students that they will get together with their new, bigger group and line up their strips so the smallest strip is at top and the biggest strip is at the bottom. Then, student groups will make as many observations as they can about the strips.



• While groups are making observations, post one paper multiples strip for each multiple on the board, in order from 2 to 10, where everyone can see. When all

groups have made at least a few observations, bring them back together in the discussion area with their journals and pencils.



Module 2 Session 3 Watertown's Window Washer Preparation: Materials

Copies	Kit Materials	Classroom Materials
Problem String Watertown's	Window Washer	
TM T2 Watertown TM T3 Watertown School Windows		 a piece of paper to mask parts of the teacher masters student math journals
Problems & Investigations	Number Line Puzzles	
SB 47* Number Line Puzzles	 60 interlocking cubes (see Preparation) adding machine tape (see Preparation) 	 paper multiples strip for 6s (from Session 2) markers or whiteboard markers
Work Places Introduce Work	Place 2B Frog Jump Multiplication	on
TM T4 Work Place Guide 2B Frog Jump Multiplication TM T5 2B Frog Jump Multiplication Record Sheet		
SB 48** Work Place Instructions 2B Frog Jump Multiplication		
Daily Practice		
SB 49–50 Windows & Number Puzzles		

Vocabulary

An asterisk [*] identifies those terms for which Word Resource Cards are available.

commutative property of multiplication* equation* factor* measuring strip multiple* product* variable*

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** Run 1 copy to be kept in a clear plastic sleeve stored in the Work Place bin.

* Run 1 copy of this page for display.

• Have the paper number lines for multiples of 2-10 from the previous session posted.

• Make a 60-cube train of interlocking cubes using two different colors. Alternate colors in groups of 6 so that you have 6 of one color followed by 6 of the next color.

• Be prepared to hang up your 60-cube train during the lesson. Ideally, you can hang it up on a whiteboard or chalkboard. If not, plan to hang it up on a bulletin board and post a 45" length of adding machine tape above the 60-cube train.

• Assign partners for Number Line Puzzles. • In today's session, you'll introduce Work Place 2B Frog Jump Multiplication, which replaces Work Place 1D Subtraction Bingo. Before this session, you should review the Work Place Guide and Work Place Instructions and assemble the bin for Work Place 2B, using materials listed in the guide. The Work Place Guide also includes suggestions for differentiating the game to meet students' needs.

Module 2 Session 4 Wally Keeps Washing Preparation: Materials

Copies	Kit Materials Classroom Materials		
Problem String More Wind	lows for Wally		
TM T6 More Watertown Windows		student math journals	
Problems & Investigation:	More Number Line Pu	zzles	
SB 51* More Number Line Puzzles		 adding machine tape measuring strips for 4s, 5s, 9s, 10s (see Preparation) tape student math journals 	
Home Connection		•	
HC 29–30 Story Problems & Number Line Puzzles			
Daily Practice			
SB 52–53 The Watertown Bank			

Vocabulary

An asterisk [*] identifies those terms for which Word Resource Cards are available. equation* variable*

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· Create a paper measuring strip for 10 if you have not already done so.

• Post paper measuring strips for 4, 5, 9, and 10 on your whiteboard or chalkboard.

Leave space between each one to draw a number line (see step 8). If you don't

have a whiteboard or chalkboard, hang adding machine tape in between each measuring strip.



10 20 3	9 40 50	60 70	80 [.] 90 100
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• Assign partners for pair work, using yesterday's partnerships or choosing different partners.

Module 2 Session 5 The Watertown Post Office Preparation: Materials

Copies	Kit Materials	Classroom Materials
Problem String The Watertown	Post Office	
TM T7 Post Office Mailboxes		 2 pieces of paper to mask por- tions of the teacher masters student math journals
Problems & Investigations The	Watertown Post Office N	Nailboxes
SB 54* More Post Office Mailboxes		As needed: • markers • glue or tape • scissors
Work Places Introducing Work Pl	ace 2C Cover Up	
TM T8 Work Place Guide 2C Cover Up TM T9 2C Cover Up Record Sheet SB 55** Work Place Instructions 2C Cover Up	spinner overlay	 colored pencils in 2 different colors
Daily Practice		
SB 56 Watertown Center		

Vocabulary

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array* equation* variable*

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** Run 1 copy of this page to be kept in a clear plastic sleeve in the Work Place bin.

• Assign partners for pair work, using yesterday's partnerships or choosing different partners. In today's session, you'll introduce Work Place 2C Cover Up, which replaces Work Place 1E Carrot Grab. Before this session, you should review the Work Place Guide and Work Place Instructions.

• Make copies of the 2C Cover Up Record Sheet for use today, and store the rest in the Work Place 2A Loops & Groups bin, along with the materials listed on the guide. The Work Place Guide also includes suggestions for differentiating the game to meet students' needs.

<u>*Unit 2 Module 3 Ratio Tables & the Multiplication Table</u> Unit 2 Module 3 Session 1 Doubling String & Pet Store Story Problems Preparation:

Materials

Copies	Kit Materials	Classroom Materials
Problem String Doubling		
SB 57* Multiplication Table		 student math journals yellow colored pencils (class set)
Assessment Pet Store Story F	Problems Work Sample	
TM T1 Pet Store Story Problems		
Problems & Investigations	Sharing Story Problems	
TM T1 Pet Store Story Problems		chart paper (see Preparation) paper multiples strips 2–10 (for reference; from Unit 2, Module 2, Session 2)
Home Connection		
HC 31–32 More Windows		
Daily Practice		
SB 58 Wendell's Windows		

Vocabulary

An asterisk [*] identifies those terms for which Word Resource Cards are available.

equation* factor* multiple* product*

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• Post a few sheets of chart paper in your discussion area for use at the end of the session. Write the heading Multiplication Strategies on the first piece of chart paper, which you'll use to record students' strategies.



• If you have taken down the paper multiplication strips for multiples of 2-10 the class made during Module 2, Session 2, put them back up on the board where students can see them.

Module 3 Session 2 Price Lists Preparation: Materials

Copies	Kit Materials	Classroom Materials	Vocabulary
Problem String Cats & Legs			An asterisk [*] indicates terms for which Word
		 student math journals 	Resource Cards are available
Problems & Investigations	Rabbit Food Price List		price per pound
SB 59* Pet Store Price List: Rabbit Food		 student math journals 	ratio table* times 10
Daily Practice			
SB 60 Pet Store Lists			

HC – Home Connection, SB – Student Book, TM – Teacher Master Copy instructions are located at the top of each teacher master.

* Run 1 copy of this page for display.

• Study the Pet Store Price Lists: Rabbit Food Price Student Book page. How would you fill in the blanks? What strategies might your students use? Think about how you will represent their strategies on a ratio table.

• Plan how you will partner the students for filling out the price list.

Module 3 Session 3 Multiplication Strategies, Part 1 of 2 Preparation: Materials

Copies	Kit Materials	Classroom Materials
Problem String Doubles & N	lore	
TM T2 Grid Paper TM T3 Doubles & More Problem String		student math journals
Problems & Investigations	Multiplication Table, Part	1
TM T2 Grid Paper SB 57* Multiplication Table		 red, orange, and brown colored pencils (class set)
Home Connection		
HC 33-34 Mixed Practice		
Daily Practice		
SB 61 Array Challenges		

Vocabulary

An asterisk [*] indicates those terms for which Word Resource Cards are available.

commutative property of multiplication*

equation*

factor*

multiple* product*

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Fact Category	Multiplier	Featured Facts in Category	Color on Chart
Doubles facts	× 2	(featured in Session 1)	yellow
Double-Doubles facts	× 4	4×4,4×8	red
Double-Double-Doubles facts	× 8	8×6,8×7,8×8	brown
Doubles Plus One Set facts	×3	3 × 3, 3 × 4, 3 × 8	orange

×	0	1	2	3	4	s	6	7		9	10	
	.0×0	.0×1	0×2	.0×3	0×4.	9×5	0×6	0×7	0×8	0×9	0×30	
•		•	0			0			0		•	
	1×0	1×1	1×2	1×1	1 x 4	1×5	1×6	1.87	1×8	1×R	1 × 10	
1		1	2	3	4	5		7	8		10	
	2×0	2×1	2×2	2 8.3	2×4	2×5.	2×6	2×7	2×8	2×9	2×30	
*	0	2	4	6		18	12	14	16	18	20	
	3×9	3×1	3×2	1×3	1.00	3×5	By#	117	Sys.	318	3 = 10	
1	0	8	6	0	10	15	18	21	34	27	30	
	4×0	4×1	4×2	412		412		**7	418	4.8	4.12	
•	0	4		- 12	1.88	36	- 24	128		36	40	
	5×0	5×1	5×2	553	214	5×5	5×6	5×7	318	5×9	5 H 10	Zara facts (x 0)
,	0	5	30	15	38	25	10	35	40	45	50	
	6×9	6×1	6×2	6.83	1.1.1.1	6×5	6×6	-6×7	dell	6×9	6×10	Ones facts (× 1)
•			12	- 18	- 24	30	36	42	-48	54	60	Doubles facts (x 2)
	7×0	7×1	7×2	7×3	126.63	7×5	7×6	7 8 7	748	7×9	7×30	Doubles Plus One Set facts (×)
1	.0	7	- 14	- 21	28	35	42	49	56	63	70	Double-Doubles facts (× 4)
	8×0	8×1	8×2	883	18.64	4+3	Z+6	8.7.5	dell.	1.1	Sx 30	Half-Tens facts (x 5)
	0	- 4 . (- 16	28	14	- 48	48	56	54	72	80	
	9×0	9×1	9×2	8×3		9×5	9×6	9×7.	9.8	9×9	9×30	Inan-tens Plas One set facts (s
1	0		38	27	- 16	45	54	63	72	81	90	Double-Double-Doubles facts
	30 × 0	10×1	10×2	10 + 3	38.6.6	10×5	10×6	10×7	10	10×9	10 × 10	Tens Minus One Set facts (x 9)

Module 3 Session 4 Multiplication Strategies, Part 2 of 2 Preparation: Materials

Copies	Kit Materials	Classroom Materials
Problem String Tens Fac	ts & More	
TM T2 Grid Paper		student math journals
Problems & Investigatio	ns Multiplication Table, F	Part 2
SB 57* Multiplication Table		 green, blue, purple, and turquoise colored pencils (class set)
Daily Practice		
SB 62 Multiplication Patterns		

Vocabulary

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commutative property of multiplication* equation* factor* multiple* product*

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Work with students to locate and fill in each set of facts one at a time.
For each set of facts, ask students to find matching facts in the row

and the column.

• Also discuss some of the more challenging facts in each set together as a class and use copies of the Grid Paper Teacher Master to illustrate how they can use Doubles facts to help solve each.

Fact Category	Multiplier	Featured Facts in Category	Color on Chart
Doubles facts	×2	(featured in Session 1)	yellow
Double-Doubles facts	× 4	(featured in Session 3)	red
Double-Double-Doubles facts	×8	(featured in Session 3)	brown
Doubles Plus One Set facts	× 3	(featured in Session 3)	orange
Tens facts	× 10		blue
Half-Tens facts	× 5	5×6,5×7,5×8	green
Half-Tens Plus One Set facts	×6	6×6,6×7,6×8	turquoise
Tens Minus One Set facts	× 9	9 × 6, 9 × 7, 9 × 8, 9 × 9,	purple



Module 3 Session 5 Ice Cream Survey Preparation: Materials

Copies	Kit Materials	Classroom Materials
Problems & Investigations Ice Crean	n Survey	
TM T4 Ice Cream Cone Markers SB 63* Ice Cream Bar Graph		 8 ½" by 14 " copy paper (half-class set) 3" by 3" sticky notes (class set) scissors (class set) glue sticks (class set) pencils (class set) rulers (class set) crayons (optional)
Work Places Introducing Work Place	2D Doubles Help	
TM T5-T6 Work Place Guide 2D Doubles Help TM T7 2D Doubles Help Record Sheet TM T8 2D Doubles Help Grid Paper SB 64** Work Place Instructions 2D Doubles Help		
Home Connection	22	20
HC 35–36 Grocery Shopping		
Daily Practice		
SB 65 Favorite Ice Cream		

Vocabulary

An asterisk [*] identifies those terms for which Word Resource Cards are available.

bar graph* picture graph*

HC - Home Connection, SB - Student Book, TM - Teacher Master

Copy instructions are located at the top of each teacher master.

* Run 1 copy of this page for display. ** Run 1 copy of this page to be kept in a clear plastic sleeve in the Work Place bin.

• In today's session, you'll introduce 2D Doubles Help, which replaces Work Place 1F Rabbit Tracks. Before this session, you should review the Work Place Guide and Work Place Instructions.

· Make copies of the 2D Doubles Help Record Sheet for use today, and store the rest in the Work Place 2D Doubles Help bin, along with the materials listed on the guide. The Work Place Guide also includes suggestions for differentiating the game to meet students' needs.

*Unit 2 Module 4 Story Problems with Graphs & Multiple <u>Operations</u>

Unit 2 Module 4 Session 1 Book Lovers Survey Preparation:

Copies	Kit Materials	Classroom Materials
Problems & Investig	ations Book Lovers Survey	
TM T1 Book Markers SB 66* Book Bar Graph		 8 ½" by 14 " copy paper (half-class set) 3" by 3" sticky notes (class set) scissors (class set) glue sticks (class set) pencils (class set) rulers (class set) crayons or colored pencils (class set)
Work Places in Use		
1G Target One Hundred 1H Anything But Five (i 2A Loops & Groups (int 2B Frog Jump Multiplic 2C Cover Up (introduce 2D Doubles Help (intro	d (introduced Unit 1, Module 4, Se ntroduced Unit 1, Module 4, Sessie roduced Unit 2, Module 1, Session ation (introduced Unit 2, Module ed Unit 2, Module 2, Session 5) duced Unit 2, Module 3, Session 5	ssion 3) on 5) 1 5) 2, Session 3))
Home Connection		
HC 37–38 Favorite Pets		
Daily Practice		
SB 67 Favorite Books		

Vocabulary

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bar graph* picture graph*

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Materials

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· List four book genres on a whiteboard that are popular with your students, such as: animal books, fantasy books, arts and crafts books, and sports books. You will need plenty of empty space to the right of the list. See the example after Action Item 2.

• Where all students can see it, write the list of Work Places that are available to students today. You can write out just the numbers, or write the full names if you have time.

Materials **Kit Materials** Copies **Classroom Materials** Problems & Investigations Library Books Data SB 68* base ten pieces Library Books Data & Graph SB 69* LIbrary Books Problems Work Places in Use 1G Target One Hundred (introduced Unit 1, Module 4, Session 3) 1H Anything But Five (introduced Unit 1, Module 4, Session 5) 2A Loops & Groups (introduced Unit 2, Module 1, Session 5) 2B Frog Jump Multiplication (introduced Unit 2, Module 2, Session 3) 2C Cover Up (introduced Unit 2, Module 2, Session 5) 2D Doubles Help (introduced Unit 2, Module 3, Session 5) **Daily Practice SB 70 Gift Wrap Fundraiser**

Module 4 Session 2 Library Books Data Preparation:

Vocabulary

An asterisk [*] identifies those terms for which Word Resource Cards are available.

bar graph* table*

HC – Home Connection, SB – Student Book, TM – Teacher Master Copy instructions are located at the top of each teacher master.

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• Where all students can see it, write the list of Work Places that are available to students today. You can write out just the numbers, or write the full names if you have time.

Module 4 Session 3 Library Books Problems Preparation: Materials

copies	Kit Materials	Classroom Material				
Problems & Investigations	Library Books Problems					
SB 71*-72 • base ten area pieces More Library Books Problems • colored tiles						
Work Places in Use		86- -				
2A Loops & Groups (introduced	Unit 2, Module 1, Session 5)	S at 1				
20 Frog Jump Multiplication (Int 20 Cover Up (introduced Unit 2, J 20 Doubles Help (introduced Un Home Connection	roduced Unit 2, Module 2, Sessior Module 2, Session 5) hit 2, Module 3, Session 5)	(5 1				
20 Frog Jump Multiplication (int 20 Cover Up (introduced Unit 2, 20 Doubles Help (introduced Unit Home Connection HC 39–40 The Pencil Survey	roduced Unit 2, Module 2, Session Module 2, Session 5) hit 2, Module 3, Session 5)	(
2B Frog Jump Multiplication (Int 2C Cover Up (introduced Unit 2, 2D Doubles Help (introduced Un Home Connection HC 39–40 The Pencil Survey Daily Practice	roduced Unit 2, Module 2, Session Module 2, Session 5) hit 2, Module 3, Session 5)	(5 1				

Vocabulary

An asterisk [*] identifies those terms for which Word Resource Cards are available. product*

Copy instructions are located at the top of each teacher master.

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· Where all students can see it, write the list of Work Places that are available to students today. You can write out only the numbers, or write the full names if you have time.

Module 4 Session 4 Unit 2 Post-Assessment Preparation: Materials

Copies	Kit Materials	Classroom Materials
Assessment Unit 2 Post-Asse	ssment	
T2-T5 Unit 2 Post-Assessment		 scratch paper
Work Places in Use		
1G Target One Hundred (introduce 1H Anything But Five (introduced 2A Loops & Groups (introduced U 2B Frog Jump Multiplication (intro 2C Cover Up (introduced Unit 2, M 2D Doubles Help (introduced Unit	ed Unit 1, Module 4, Session 3) Unit 1, Module 4, Session 5) nit 2, Module 1, Session 5) oduced Unit 2, Module 2, Session 3) Module 2, Session 5) t 2, Module 3, Session 5)	
Daily Practice		
SB 74 On Your Own		

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