First Grade Illustrative Math



Math Centers Stage by Stage

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Let's Connect!









Grab and Count

Stage 2: Ones Cubes

Task statement

- Each student grabs a handful of ones cubes and put them together with their partner's.
- They estimate how many cubes there are and then count the cubes.
- Students record their estimate and the actual number of cubes on the recording sheet.

- ·Base-ten blocks
- •Grab and Count Recording Sheet

guess	count
***************************************	***************************************
guess	count
***************************************	***************************************
guess	count
***************************************	***************************************
guess	count

guess	count

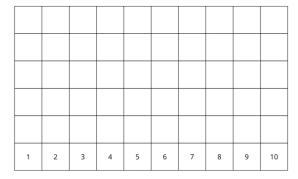
Number Race

Stage 3: Add to 10

Task statement

- Students take turns rolling two dot cubes.
- They find the sum and record it in the corresponding column on their gameboard.
- If the sum is more than IO, students roll the cubes again.

- •Dot Cubes
- •Number Race Gameboard



Counting Collections

Stage I: Up to 20

Task statement

Students are given a collection of up to 20 objects.

They work with a partner to figure out how many objects are in their collection and then each partner shows how many.

Students may draw pictures or write numbers to represent their collection.

Required materials

- •10-Frames
- •5-frames
- •Collections of objects
- •Counting Collections Stages I & 2 Recording Sheet

low many are there? Sh My count:		
,		
	How many?	

Stage 3: Estimate & Count up to 120

Task statement

Students are given a collection of up to I20 objects.

They record an estimate for how many objects they think are in their collection.

Then, they work with a partner to figure out how many objects are in their collection and each partner records how many.

Students may draw pictures, write numbers or equations, or use base-ten

representations to represent their collection

- •10-Frames
- •Collections of objects
- Cups
- Paper plates
- •Counting Collections Stage 3 Recording Sheet

too low	about right	too high

Write Numbers

Stage I: Numbers to 99 by I

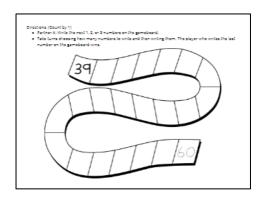
Task statement

Students take turns writing the next I, 2, or 3 numbers in the sequence. The player who writes the last number on the number path wins.

Students count by I and choose whether to count forward or backward. Gameboards go from 39-60, 69-90, and 78-99.

Required materials

- •Dry erase markers
- Sheet protectors
- •Write the Number Stage I Gameboard



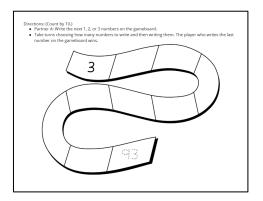
Stage 2: Numbers to 99 by I and 10

Task statement

Students take turns writing the next I, 2, or 3 numbers in the sequence. The player who writes the last number on the number path wins.

Students count by 10 and choose whether to count forward or backward.
Gameboards go from 3-93, 5-95, and 8-98.

- Dry erase markers
- Sheet protectors
- •Write the Number Stage 2 Gameboard



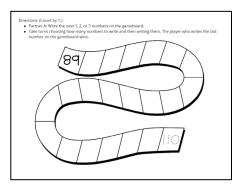
Write Numbers

Stage 3: Numbers to 120 by 1

Task statement
Students take turns writing
the next I, 2, or 3 numbers in
the sequence. The player who
writes the last number on the
number path wins.

Students count by I and choose whether to count forward or backward. Gameboards go from 89-110, 95-116, and 99-120.

- •Dry erase markers
- Sheet protectors
- •Write the Number Stage 3 Gameboard



Get Your Numbers in Order

Stage I: Two-digit Numbers

Task statement

Students remove the cards that show 10 before they start. Then they choose two number cards and make a two-digit number. Students write their number in any space on the board, as long as the numbers from left to right go from least to greatest. If students cannot place their number, they get a point. The player with the fewest points when the board is filled in the winner.

- •Dry erase markers
- •Number cards 0-10
- Sheet protectors
- •Get Your Numbers in Order Gameboard

 Wri 	c 2 number card te your number st to greatest.			need to go fro	m // ///	
o You				r number canno	ot be placed on the ga	ame
 Take turr 		tner until all		are filled. The p	artner with the fewes	t
ast					Greatest	:
	<u> </u>	<u> </u>	<u>l</u>	 	<u>i</u>	
ints						
Partner A	Partner B					

Greatest of them All

Stage I: Two-digit Numbers

Task statement
Students use digit cards to
create the greatest possible
number. As each student
draws a card, they choose
where to write it on the
recording sheet. Once a digit is
placed, it can't be moved.
Students compare their
numbers using >, <, or =. The
player with the greater
number in each round gets a
point.

Students should remove cards that show 10 from their deck

Required materials •Number Cards 0-9 •Greatest of them All Recording Sheet

Partner A chooses a number carblanks for Round 1. Partner B does the same. Repeat until each partner has a to Write a comparison using <, >, or The partner with the greater number of the partner number of the numbe	=,	
Round 1:	M. Darton de Niverbon	
My Number	My Partner's Number	
Compare using <, >, or =.		
Round 2:		
My Number	My Partner's Number	
Compare using <, >, or =.		

Find the Pair

Stage 2: Make 10

Task statement

Partner A asks their partner for a number that would make 10 when added to the number on one of their cards. If Partner B has the card, they give it to Partner A. If not, Partner A chooses a new card. When students make the target number 10, they put down those two cards and write an equation to represent the combination. Students continue playing until one player runs out of cards. The player with the most pairs wins.

- •10-frames
- •Connecting cubes or counters
- •Number cards 0-10
- •Find the Pair recording sheet

Directions: - Take 5 cards each and put the rest in a pile face down. - Partner A: - Ask your partner for a number that can be added to one of your can to make 10. - If they have be card, put the pair of cards down and fill in the	ds	
if they don't have that card, pick a card from a pile. Take burns asking for cards. The partner with the most pairs at the the game wins. + = 10	1	2
+ = 10	3	4
+ = 10	5	6

Check it Off

Stage I: Add within IO

Task statement
Students take turns picking
two number cards (0-5) to
make and find the value of an
addition expression. Students
check off the number that
represents the value of the
sum (0-10) and then write the
addition expression on the
recording sheet.

This stage has two different recording sheets, one for kindergarten and another for grade I. On the kindergarten recording sheet, students fill in blanks to record the expression. On the grade I recording sheet, students write in the full expression. Be sure to use the appropriate recording sheet with students.

Required materials

- •Number Cards 0-10
- •Check it Off Recording Sheet

	the game wins.	as checked off the mos		
0	✓ Found it!	expression	1	2
1				
2				
3				
4			3	4
5			•	•
6				
7				
8			5	6
9			5	O
10				

Stage 2: Subtract within 10

Task statement

Students take turns picking two number cards (O-IO) to make and find the value of a subtraction expression. Students check off the number that represents the value of the difference (O-IO) and then write the subtraction expression on the recording sheet.

- •Number Cards 0-10
- •Check it Off Recording Sheet

	the game wins.	ho has checked off the most numbers	
	✓ Found it!	expression	
0			
1			
2			
3			
4			
5			
6		1	2
7		I	2
8			
9			
10		3	4

Check it Off

Stage 3: Add or Subtract Tens

Task statement

Students take turns picking two number cards that are multiples of IO (0-90) and choose whether to make an addition or subtraction expression. Students check off the value of the sum or difference (0-90) and then write the addition or subtraction expression on the recording sheet.

- Connecting cubes in towers of IO and singles
- •Number Cards, Multiples of 10 (0-90)
- •Check it Off, stage 3 recording sheet

Number Cards Multiples of 10	Number Cards Multiples of 10	Number Multiple	Cards s of 10		Number Cards Multiples of 10	
10	20		30		40	
Number Cards Multiplies of 10	Number Cards Multiplies of 10	∘ (• Take t	Pick 2 cards and Theck off the nu	ımber	ne sum or difference. you found and write the e has checked off the most	nd
го	CO	orthe	✓ Found it!		expression	
50	60	0				
		10				
		20				
		30				
		40				
		50				
		60				
		70				
		80				
		90				

What's Behind My Back?

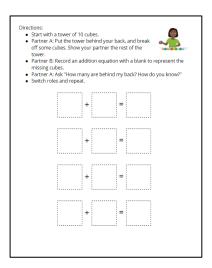
Stage 2: 10 Cubes

Task statement

Students work with 10 cubes. One partner snaps the tower and puts one part behind their back and shows the other part to their partner. Their partner figures out how many cubes are behind their back.

This stage has two different recording sheets, one for kindergarten and another for grade I. Be sure to use the appropriate recording sheet with students.

- •10-Frames
- Connecting cubes
- What's Behind My Back Stage 2 Recording Sheet Grade I



Shake and Spill

Stage 3: Represent

Task statement
Students decide together how
many counters to use (up to
IO). One partner spills the
counters. Both partners
represent the red and yellow
counters on the recording
sheet.

This stage has two different recording sheets, one for kindergarten and another for grade I. Be sure to use the appropriate recording sheet with students.

Required materials

- •Each group of 2 needs a cup and 10 two-color counters.
- •5-frames
- Cups
- •Shake and Spill Recording Sheet

	Partr Both how equa	se how many counters to put in the cup. ser A: Shake and spill. partners: Determine how many red counters and many yellow counters there are and write an tion to alshow the total. throles and start the next round.
Draw a picture.	round	Write an equation to represent the red and yellow counters.
	1	
Fill in the expression.		
+	2	
	3	
Draw a picture.		
	4	
Fill in the expression.	5	
*		
	6	
Draw a picture.	7	
	8	Opposalad
Fill in the expression.	°	Grade I
Kindergarten		2. 0.0.0

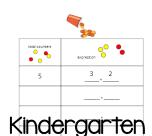
Stage 4: Cover (up to 10)

Task statement

Students decide together how many counters to use (up to 10). Partner A closes their eyes while Partner B shakes, spills, and covers up the yellow counters with a cup. Partner A determines how many counters are under the cup and explains how they know. Both partners record the round. Switch roles and repeat.

This stage has two different recording sheets, one for kindergarten and another for grade I. Be sure to use the appropriate recording sheet with students.

- •Each group of 2 needs a cup and 10 two-color counters
- •5-frames
- Cups



Choose Partner Partner counter Partner counter Partner counter Partner counter Partner	all Stage 4 and 5 Recording Sheet (55 and 3) (111) how many counters to put in the cup. A Close your eyes. So Shake and split. Cover up the yellow swith the cup. A Copen your eyes and figure out how many are under the cup. So Short how many transes Record an equazion.	1	
round:	Write an equation to represent the red and	yellow counters.	
1			l
2	Brade.	l R.	12
3	JI GGO	ICX	
4			
5			
6			
7			
8			1

· · · · · · · · · · · · · · · · · · ·
÷

Shake and Spill

Stage 5: Cover (up to 20)

Task statement

Students decide together how many counters, between II-20, to use. Partner A closes their eyes while Partner B shakes, spills, and covers up the yellow counters with a cup. Partner A determines how many counters are under the cup and explains how they know. Both partners record the round. Switch roles and repeat.

- •Each group of 2 needs a cup and 10 two-color counters.
- •5-frames
- •Cups
- •Shake and Spill Recording Sheet

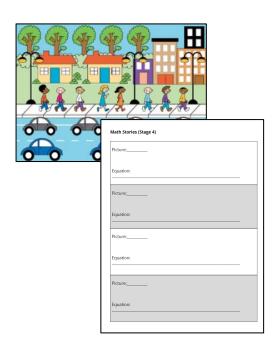
ections:								
	how many counters to put in the cup. A: Close your eyes. B: Shake and spill. Cover up the yellow s with the cup.							
	Partner B: Shake and spill. Cover up the yellow							
	counters with the cup.							
	A: Open your eyes and figure out how many							
	s are under the cup.							
	B: Show how many.							
Both par	tners: Record an equation.							
Switch re	oles and start the next round.							
round:	Write an equation to represent the red and yellow counters							
1								
2								
3								
4								
5								
6								
7								
8								

Math Stories

Stage 4: Add and Subtract

Task statement
Students pose and solve
addition and subtraction story
problems about pictures.
Students write an equation to
represent their story problem.

- •Math Stories, stage 4 recording sheet
- •Math Stories pictures



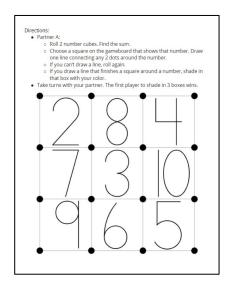
Capture Squares

Stage I: Add within IO

Task statement
Students roll two number
cubes and find the sum.

Required materials

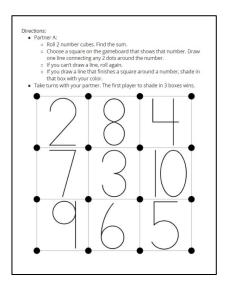
- •Each group of 2 needs two number cubes.
- Colored pencils or crayons
- •Capture Squares Gameboard



Stage 2: Subtract within 10

Task statement
Students choose two cards and find the difference.

- •Colored pencils or crayons
- •Number cards 0-10
- •Capture Squares, stage 2, gameboard



Target Numbers

Stage I: Add Ones

Task statement Before playing, students remove the cards that show 0 and 10 and set them aside.

Students add a one-digit number to a two-digit number with composing a ten in order to get as close to 95 as possible. Students start their first equation with 55 and turn over a number card and add it to their starting number for the round. The sum becomes the first addend in the next round. The player who gets closest to 95 in 6 rounds, without going over, is the winner.

Required materials

- •Connecting cubes in towers of 10 and singles
- •Number cards 0-10
- •Target Numbers Recording Sheet

• (ions: On vour	turn				
		irt at 55. Roll t	he number	cube.		
				rting number a	nd write an eq	uation
		present the su				
		ns until you've				
		and, the sum for equation.	rom the pre	vious equations	is the starting	numbe
			ım closest t	o 95 without go	ing over wins	
	ne pon	ner to get o st	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	0 35 11111001 80		
	roll			equation		
		55	+	=		
		- 55	т	_		
-						
			+	=		
			- · —			
\vdash						
			+	=		
- 1						_
			+	=		
			+	=		
			+	=		
		l ——				

Stage 2: Add Tens or Ones

Task statement

Before playing, students remove the cards that show 0 and 10 and set them aside.

Students add tens or ones to get as close to 95 as possible. Students start their first equation with 25. Students take turns flipping a number card and choosing whether to add that number of tens or ones and write an equation. The sum becomes the first addend in the next round. The player who gets closest to 95 in 6 rounds, without going over, is the winner.

- •Connecting cubes in towers of 10 and singles
- •Number cards 0-10
- •Target Numbers Recording Sheet

ni	art at 25. Pic umber of ten	k a number card. Choose s or ones to your startin	g number.
o W	rite an equat	tion to represent the sun we played 6 rounds.	n.
Each ro	und, the sun	from the previous equa	itions becomes the
	r in the new o	equation. sum closest to 95 witho	ut going over wins.
roll	choose	equ	ation
	tens or ones	25 +_	=_
	tens or ones	+_	_=_
	tens or ones	+	=

Target Numbers

Stage 3: Add Two-digit Numbers

Task statement Students add two-digit numbers to get as close to 95 as possible. Students start by rolling two number cubes to get a starting number. Then, they take turns rolling the three cubes to get a number to add. They choose one of the numbers on the cubes to represent the tens and a different number to represent the ones. Students add their tens and ones to the starting number. The sum becomes the first addend in the next round. The player who gets closest to 95 in 6 rounds, without going over, is the winner.

- •Each group of 2 needs three number cubes.
- •Connecting cubes in towers of 10 and singles
- •Target Numbers Recording Sheet _____

On your turn:		
	o get your starting number	
	Choose one number to rep	
	present the ones you will a stion to represent the sum.	fd.
	ation to represent the sum. u've played 6 rounds.	
	m from the previous equat	on is the starting number
the new equation.		
The partner who go	rts a sum closest to 95 with	out going over wins.
roll and choose	equi	tion
tens	+	=
ones		
tens	+	=
ones	· — · —	
tens	+	=
ones	· ·	
ones		
tens		=
	'	
ones		
tens		_
		_
ones		
		=
tens		
tens	+	

How Close?

Stage I: Add to 20

Task statement

Each student picks 5 cards and chooses 3 of them to write an addition expression with 3 addends.

The student whose sum is closest to 20 wins a point for the round.

Students pick new cards so that they have 5 cards in their hand and then start the next round.

Required materials

- •Number Cards 0-10
- •How Close? Recording Sheet

Stage 2: Subtract from 20

Task statement
Before playing, students
remove the cards that show
the number 10 and set them
aside

Each student picks 4 cards and chooses 2 or 3 to subtract from 20 to get close to 0.

The student whose difference is closest to 0 wins a point for the round. Students pick new cards so that they have 4 cards in their hand and then start the next round.

- •Number Cards 0-9
- •How Close? Recording Sheet

o Ch o Wi nu o Co po	ike 4 cards. noose 2 or 3 ni rite an equatio imbers from 2	on to show the 0. ences with you	r partner, whoe	en you subtract the ever is closer to 0 wins a
20 -	-		-	=
20 -	-		-	=
20 -	-		-	=
20 -	-		-	=

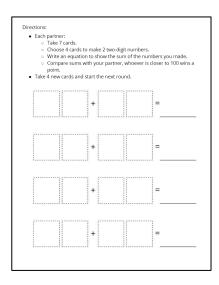
How Close?

Stage 3: Add to 100

Task statement
Before playing, students
remove the cards that show
the number 10 and set them
aside.

Each student picks 7 cards and chooses 4 of them to create 2 two-digit numbers.
Each student adds the numbers and the student whose sum is closest to 100 wins a point for the round. Students pick new cards so that they have 7 cards in their hand and then start the next round.

- •Number Cards 0-10
- •How Close? Recording Sheet



Compare

Stage I: Add and Subtract within 10

Task statement

Both partners flip over a card, the partner whose card has the greater value takes both cards. Students use cards with addition and subtraction expressions within IO. The game is over when each partner runs out of cards to flip over. The partner with the most cards wins.

Required materials

Addition Cards to IO

Compare Stage 1	Compare Stage 1
1+0	0+7
Compare Stage 1	Compare Stage 1
5+0	0 + 3
Compare Stage 1	Compare Stage 1
10 + 0	0+9
Compare Stage 1	Compare Stage 1
1+1	1+2

Stage 2: Add and Subtract within 20

Task statement

Both partners flip over a card, the partner whose card has the greater value takes both cards. Students use cards with addition and subtraction expressions within 20. The game is over when each partner runs out of cards to flip over. The partner with the most cards wins.

Required materials

Subtraction Cards to 20

Compare Stage 2
20 – 13
Compare Stage 2
20 – 12
Compare Stage 2
20 – 9
Compare Stage 2
19 – 11

5 in a Row: Addition & Subtraction

Stage I: Add I or 2

Task statement
Students choose a number card 0-10 and choose to add I or 2 to the number on their card and then place their counter on the sum.

Required materials

- •Each group of 2 needs 25 counters.
- •Number cards 0-10
- Stage I & 2 Gameboard

				5 in a
2	4	9	8	3
5	7	6	10	9
8	3	FREE	5	4
9	2	10	3	7
6	5	8	9	4

Stage 2: Subtract I or 2

Task statement

Students choose a number card 0-10 and choose to subtract I or 2 from the number on their card and then place their counter on the difference.

- •Each group of 2 needs 25 counters.
- •Number cards 0-10
- •Stage I & 2 Gameboard

				5 in a
2	4	9	8	3
5	7	6	10	9
8	3	FREE	5	4
9	2	10	3	7
6	5	8	9	4

5 in a Row: Addition & Subtraction

Stage 3: Add 7, 8, or 9

Task statement
Students choose a number
card 0-10 and choose to add 7,
8, or 9 to the number on their
card and then place their
counter on the sum.

Required materials

- •Each group of 2 needs 25 counters.
- •Number cards 0-10
- Stage 3 Gameboard

				5 in a
12	14	12	8	11
15	17	16	10	19
18	13	FREE	15	14
9	17	10	13	7
19	16	11	9	18

Stage 4: Add or Subtract 10

Task statement
Students choose a card that
shows a multiple of IO.
They choose whether to add or
subtract IO from the number or
their card and then place their
counter on the sum or
difference.

- •Each group of 2 needs 25 counters.
- •10-frames
- •Connecting cubes in towers of 10 and singles
- •Number cards, Multiple of 10
- Stage 4 gameboard

					5 in c			
20	40	60	80	C	30			
10	70	90	0)	50			
60	30	FREE	5()	40			
90	20	Number Cares Multiples of 10	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Number Co Multiples o		Number Multiples		Number Cents Multiples of 10
60	50	10			20		30	40
		Number Cards Multiples of 10		Number Cr Multiples o	eras e 10	Number Multiples	Cands of 10	Number Cards Multiples of 10
		50		(60		70	80

5 in a Row: Addition & Subtraction

Stage 5: Add within 100 without Composing

Task statement
Partner A chooses two
numbers and places a paper
clip on each number.
They add the numbers and
place a counter on the sum.
Partner B moves one of the
paper clips to a different
number, adds the numbers, and
places a counter on the sum.
Students take turns moving
one paper clip, finding the sum,
and covering it with a counter.

Required materials

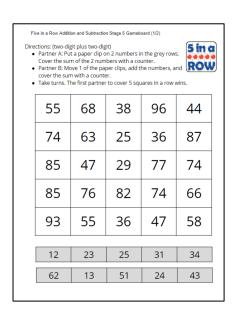
- •Each group of 2 needs 25 counters and 2 paper clips. •Stage 5 Cameboard
- Stage 5 Gameboard

Stage 6: Add within 100 with Composing

Task statement
Partner A chooses two
numbers and places a paper clip
on each number.
They add the numbers and
place a counter on the sum

place a counter on the sum.
Partner B moves one of the
paper clips to a different
number, adds the numbers, and
places a counter on the sum.
Students take turns moving one
paper clip, finding the sum, and
covering it with a counter.

- •Each group of 2 needs 25 counters and 2 paper clips.
- Stage 6 Gameboard



Partner A: Put: sum of the 2 ni Partner B: Mov sum with a cou Take turns. The	a paper clip on 2 umbers with a co e 1 of the paper o inter.	unter. :lips, add the nun	nbers, and cover	00000
81	91	54	46	90
84	83	35	82	53
60	92	99	73	51
73	42	44	53	92
100	75	82	61	64
16	27	25	34	35
65	19	57	26	48

Number Puzzles: +/-

Stage I: Within 10

Task statement Students work together to use digit cards to make addition and subtraction equations within 10 true. Each digit card may only be used one time on a page

Required materials

- •Number Puzzle Digit Cards
- Stage I Gameboard

	0		2	3	4			7		<u>9</u>			
	0	1	2	3	4	5	<u>6</u>	7	8	<u>9</u>			
	0	1	2	3	4	5	<u>6</u>	7	8	<u>9</u>			
	0	1	2	3	4	5	<u>6</u>	7	8	<u>9</u>			
	0	1	2 6	3	4	5	6	7	8	9			
	0	1	2	6= +						6= +			
	0	1	2										
Ŀ				6= -						6=	- 2		
				6= -						6=	- 1		

Stage 2: Within 20

Task statement

Students work together to use digit cards to make addition and subtraction equations within 20 true.

Each digit card may only be used one time on a page.

- •Number Puzzle Digit Cards
- Stage 2 Gameboard

0	1	2		4			7	8	<u>9</u>				
0	1	2	3	4	5	<u>6</u>	7	8	<u>9</u>				
0	1	2	3	4	5	<u>6</u>	7	8	<u>9</u>				
0	1	2	3	4	5	<u>6</u>	7	8	<u>9</u>				
0	1	2	3	4	5	6	7	8	9				
0	1	2	3	11 = +					11	11 = 1 -			
0	1	2	3		i		1			<u> </u>			
***************************************			•	11 = 1 +					11	= 1 - 2			
				11			-	8	11	= 1 - 1			

Number Puzzles: +/-

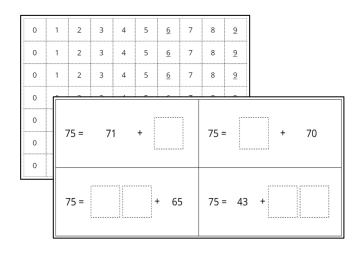
Stage 3: Within 100 without Composing

Task statement

Students work together to use digit cards to make addition and subtraction equations within 100 without composing true. Each digit card may only be used one time on a page.

Required materials

- •Number Puzzle Digit Cards
- Stage 3 Gameboard



Stage 4: Within 100, with Composing

Task statement

Students use digit cards to make addition and subtraction equations true.

They work with sums and differences within 100 with composing and decomposing. Each digit card may only be used one time on a page.

- •Number Puzzle Digit Cards
- Stage 4 Gameboard

0	1		3	4	5	<u>6</u>	7	8	<u>9</u>		
0	1		3	4	5		7	8	<u>9</u>		
0	1	2	3	4	5	<u>6</u>	7	8	<u>9</u>		
0	1		_		_					<u> </u>	
0	1	63 =	63 = 5 + 8 63						63 = 5 +		
0	1										
0	1	63 =	= 1		+	52		63 = 1	3	+ 9	
	63 = + 24								3	+ 25	

Match Mine

Stage 2: Solid Shape

Task statement
Students use positional
words as they build with
solid shapes and describe
what they have built so
their partner can make a
matching shape.

- •Folders
- Geoblocks
- Solid shapes

Geoblocks

Stage 3: Describe and Find

Task statement Students describe solid shapes so their partner can identify the shape out of a set of 4-6 solid shapes.

Required materials

- •Geoblocks
- Solid Shapes

Stage 4: Feel and Guess

Task statement
Students feel the shape
without looking at it and guess
the shape.

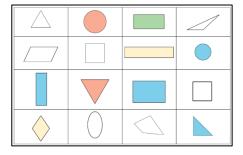
- •Geoblocks
- Bags
- Solid Shapes

Which One?

Stage 2

Task statement
One partner chooses a shape
on the gameboard.
The other partner asks
questions to figure out what
shape they chose.
Students may use counters to
cover up shapes that have been
eliminated.
Students work with triangles
and quadrilaterals.

- •Counters
- •Which One stage 2 gameboard



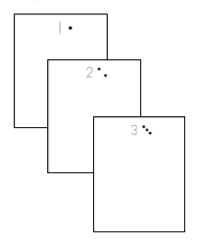
Picture Books

Stage 2: Create

Task statement
Students create their own
picture book representing
different numbers.

Required materials

- •Colored pencils or crayons
- •Picture Books, stage 2 recording sheet



Stage 3: Find Shapes

Task statement Students look through picture books and notice and describe shapes they see in the pictures.

- •Each group of 2-4 needs at least one picture book that shows a variety of shapes throughout the book.
- Picture Books, stage 3 recording sheet

Sketch what you see.	Describe what you see.	What shape is it

Sort and Display

Stage I: Any Way

Task statement

Students sort 10-20 objects into two or three categories and then show how they sorted. Provide students with a group of items that will be interesting for them to work with such as: pattern blocks, connecting cubes, counters, combination of the blocks, cubes, counters, sets of books

Students then show their representation to a partner and ask questions that can be answered about their collection of objects.

- Collection of objects
- Sort and Display stage I recording sheet



Estimate and Measure

Stage I: Choose Your Unit

Task statement Students estimate the length of objects and then measure to find the actual length.

Students choose an object and a familiar unit to measure it with. They estimate the length of the object and then measure to see the actual length to the nearest whole unit.

- •Objects of various lengths
- •Rulers (centimeters)
- •Rulers (inches)
- Estimating and Measuring
 Length recording sheet stage I

 Choose an ob Choose a unit clip, tiles, sma Estimate how Measure and 	to measure the l Il cubes, connect many units long	ing cubes.) your object is.	? ? ?
object	unit	estimate	actual measurement
example: crayon	connecting cubes	5 connecting cubes	4 connecting cubes

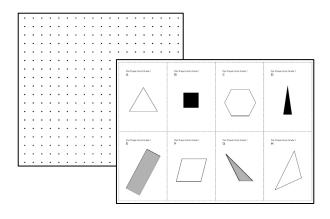
How are They the Same?

Stage I: Grade I Shapes

Task statement

Students lay six shape cards face up. One student picks two cards that have an attribute in common. All students draw a shape that has a shared attribute with the two shapes. Students get a point if they draw a shape that no other student drew. It is possible that students will draw a shape with a different shared attribute than what the original student chose. This can be an interesting discussion for students to have.

- •Centimeter Dot Paper -Standard
- •Flat Shape Cards Grade I

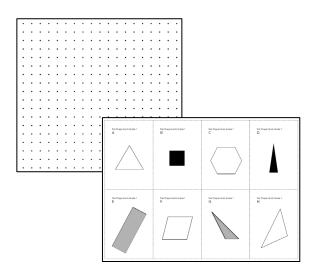


Can You Draw It?

Stage I: Stage I Shapes

Task statement
Students describe and draw
two-dimensional shapes. One
partner describes a shape.
The other partner draws the
shape based on the
description.
Partner A chooses a shape
card and describes it to their
partner. If Partner B draws
the shape correctly, they keep
the card. Shape cards include
triangles and quadrilaterals.

- •Centimeter Dot Paper -Standard
- •Flat Shape Cards Grade I



Mystery Number

Stage I: Two-digit Numbers

Task statement
Each student has a mystery
number. They give clues to
their partner based on
sentence stems or vocabulary
words. After each clue, the
partner guesses the mystery
number. Players earn points
based on how many clues they
need to identify the mystery
number. The player with the
lowest score after five
rounds wins.

In stage I, students pick two cards and make a mystery two-digit number. Students give clues based on the sentence starters.

Required materials •Number Cards 0-10

1	2
3	4
5	6