

Krystal Susag

Math Standard:

2.NBT.6 - Use strategies based on place value and properties of operations to add up to four two-digit numbers.

Daily Math Rotations:			
	Rotation 1	Rotation 2	Rotation 3
Below Grade Level	Guided Instruction and Assessment	Hands-on Math	Technology
At Grade Level	Technology	Guided Instruction and Assessment	Hands-on Math
Above Grade Level	Hands-on Math	Technology	Guided Instruction and Assessment

Daily Math Rotations: Day 1			
	Rotation 1	Rotation 2	Rotation 3
Below Grade Level	<p><u>Guided Instruction and Assessment</u></p> <p>Focus on place values and writing numbers in their expanded form.</p> <p>Adding numbers in their expanded form, two-digit dice addition worksheet, and technology</p>	<p><u>Hands-on Math</u></p> <p>Two-Digit Dice Addition.</p>	<p><u>Technology</u></p> <p>IXL Math G.5 – Add two two-digit numbers without regrouping.</p>
At Grade Level	<p><u>Technology</u></p> <p>IXL Math G.15 – Add four or more numbers up to two-digits each.</p>	<p><u>Guided Instruction and Assessment</u></p> <p>Focus on place values and writing numbers in their expanded forms.</p> <p>Adding number in their expanded form, two-digit addition worksheet, and technology</p>	<p><u>Hands-on Math</u></p> <p>Two-Digit Dice Addition with three numbers.</p>
Above Grade Level	<p><u>Hands-on Math</u></p> <p>Three-Digit Dice Addition.</p>	<p><u>Technology</u></p> <p>IXL Math G.15 – Add four or more numbers up to two-digits each.</p>	<p><u>Guided Instruction and Assessment</u></p> <p>Focus on place values and writing numbers in their expanded forms.</p> <p>Adding numbers in their expanded form, two-digit dice addition worksheet, and technology</p>

Rotation 1

Below Grade Level: Guided Instruction and Assessment

- Give students 5 two-digit problems to solve on white boards.
 - Ex. $32 + 21$
- Review base-10 blocks with the students and how place values work.
- Focus on breaking about numbers in their expanded forms.
- Students will be given 5 laminated strips of paper with equations to break into their expanded form, add and then put back together.
 - Focus on adding two two-digit numbers without carrying
- See page 8 for example

Formative Assessment:

- Assess students while they work to see if they understand how to break numbers into their expanded forms and ensure they are adding correctly.

At Grade Level: Technology

Task: Students will log into <https://www.ixl.com/math/grade-2> and complete the assigned skill.

- G.15 Add four or more numbers up to two-digits each.

Above Grade Level: Hand-on Math

Task: Students will complete the addition problems they created using dice.

- Three-Digit Dice Addition – Students will be given three dice, they will then fill in the top three squares with the numbers that were rolled. Then they will roll the dice again and fill in the next three squares with the numbers that were rolled. Next, they will add

the two three-digit numbers together to find the sum. Students will complete this process till all the boxes are filled in.

- See page 7 for similar example.
 - <https://d.docs.live.net/b301ad444dccf4f7/EDU%20307%20-%20Math%20Methods/Three-Digit%20Dice%20Addition.docx>

Rotation 2

Below Grade Level: Hand-on Math

Task: Students will complete the addition problems they created using dice.

- Two-Digit Dice Addition – Students will be given two dice they will then fill in the top two squares with the numbers that were rolled. Then they will roll the dice again and fill in the next two squares with the numbers that were rolled. Next, they will add the two two-digit numbers together to find the sum. Students will complete this process until all the squares are filled.
- See page 7 for example.
 - <https://d.docs.live.net/b301ad444dccf4f7/EDU%20307%20-%20Math%20Methods/Two-Digit%20Dice%20Addition.docx>

At Grade Level: Guided Instruction and Assessment

- Give students 5 two-digit problems to solve on white boards.
 - Ex. $32 + 21 + 55$
- Review base-10 blocks with the students and how place values work.
- Focus on breaking about numbers in their expanded forms.

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- Students will be given 5 laminated strips of paper with equations to break into their expanded form, add and then put back together.
 - Focus on adding two two-digit numbers with carrying to the hundreds place value
- See page 9 for example

Formative Assessment:

- Assess students while they work to see if they understand how to break numbers into their expanded forms and ensure they are adding correctly.

Above Grade Level: Technology

Task: Students will log into <https://www.ixl.com/math/grade-2> and complete the assigned skill.

- G.15 Add four or more numbers up to two-digits each.

Rotation 3

Below Grade Level: Technology

Task: Students will log into <https://www.ixl.com/math/grade-2> and complete the assigned skill.

- G.5 Add two two-digit numbers without regrouping.

At Grade Level: Hands-on Math

Task: Students will complete the addition problems they create using dice.

- Two-Digit Dice Addition with three numbers – Students will be given two dice they will then fill in the top two squares with the numbers that were rolled. Then the students will roll the dice again and fill in the next two squares with the numbers that were rolled. Next, the students will roll the dice once more and fill in the next two squares with the numbers that were rolled. The students will then add the three two-digit numbers

together to find the sum. Students will complete this process until all the squares are filled.

- See page 7 for similar example
 - <https://d.docs.live.net/b301ad444dccb4f7/EDU%20307%20-%20Math%20Methods/Two-Digit%20Dice%20Addition%20with%20Three%20Numbers.docx>

Above Grade Level: Guided Instruction and Assessment

- Give students 5 two-digit problems to solve on white boards.
 - Ex. $32 + 21 + 55 + 12$
- Review base-10 blocks with the students and how place values work.
- Focus on breaking about numbers in their expanded forms.
- Students will be given 5 laminated strips of paper with equations to break into their expanded for, add and then put back together.
 - Focus on adding three two-digit numbers with carrying to the hundreds place value.
- See page 8 for example





Formative Assessment:

- Assess students while they work to see if they understand how to break numbers into their expanded forms and ensure they are adding correctly.

Name: _____

Two Digit Dice Addition

Directions: Roll two dice and fill in the top two boxes with the numbers that were rolled. Repeat this for the next two boxes then find the sum of the math equation you created.

Example: Roll 1   Roll 2  

$$\begin{array}{r} 45 \\ + 34 \\ \hline 79 \end{array}$$

$$\begin{array}{r} \square \square \\ + \square \square \\ \hline \square \square \end{array}$$

$$\begin{array}{r} \square \square \\ + \square \square \\ \hline \square \square \end{array}$$

$$\begin{array}{r} \square \square \\ + \square \square \\ \hline \square \square \end{array}$$

$$\begin{array}{r} \square \square \\ + \square \square \\ \hline \square \square \end{array}$$

$$\begin{array}{r} \square \square \\ + \square \square \\ \hline \square \square \end{array}$$

Below Grade Level Day 1 Rotation 1 Guided Instruction

Expand each number	Add the tens	Add the ones
34 →		+
+ 51		+
<hr/>		+
←		
Put back together		

Above Grade Level Day 1 Rotation 2 Guided Instruction

Expand each number	Add the hundreds	Add the tens	Add the ones
34 →		+	+
86 →		+	+
+ 42 →		+	+
<hr/>		+	+
←			
Put back together			

At Grade Level Day 1 Rotation 2 Guided Instruction

Expand each number	Add the hundreds	Add the tens	Add the ones
34 →		+	+
+ 86 →		+	+
<hr/>	<hr/>		
		+	+
← Put back together			

Daily Math Rotations: Day 2			
	Rotation 1	Rotation 2	Rotation 3
Below Grade Level	<p><u>Guided Instruction and Assessment</u></p> <p>Focus on place value and carrying numbers. (Two two-digit numbers with carrying to the tens place)</p> <p>White board math activity and technology.</p>	<p><u>Hands-on Math</u></p> <p>Two-Digit Addition Bingo.</p>	<p><u>Technology</u></p> <p>IXL Math G.6 – Add two two-digit numbers with regrouping.</p>
At Grade Level	<p><u>Technology</u></p> <p>IXL Math G.16 – Add four or more numbers up to two digits each: word problems.</p>	<p><u>Guided Instruction and Assessment</u></p> <p>Focus on place value and carrying numbers. (Three and four two-digit numbers with carrying to the hundreds place)</p> <p>White board math activity and technology.</p>	<p><u>Hands-on Math</u></p> <p>Two-Digit Addition Bingo with 3-4 numbers.</p>
Above Grade Level	<p><u>Hands-on Math</u></p> <p>Three-Digit Addition Bingo.</p>	<p><u>Technology</u></p> <p>IXL Math G.16 – Add four or more numbers up to two digits each: word problems.</p>	<p><u>Guided Instruction and Assessment</u></p> <p>Focus on place value and carrying numbers. (Three and four two-digit numbers with carrying to the hundreds place)</p> <p>White board math activity and technology.</p>

Rotation 1

Below Grade Level: Guided Instruction and Assessment

- Present students with a base-10 block equation and have them solve it on a whiteboard.
- Teach students about carrying numbers into the next place value and how important it is to set up their math equation neatly so that they keep the place values in line.
- Set up base-10 block equations on the table and have the students translate and solve the problem on a whiteboard.
 - Focus on adding two two-digit numbers with carrying to the tens place.

Formative Assessment:

- Assess students while they work by making sure they understand how to use base-10 blocks, they know how to carry over, how to set up math equations, and they are adding correctly.

At Grade Level: Technology

Task: Students will log into <https://www.ixl.com/math/grade-2> and complete the assigned skill.

- G.16 Add four or more numbers up to two-digits each: word problems.

Above Grade Level: Hand-on Math

Task: Students will work with a partner and play three-digit addition bingo.

- Three-Digit Addition Bingo - Students will play in groups of two. Each student will have a spinner, bingo card, bingo chips, and scratch paper. First the students will spin their spinner. Next, the students will take the number that each spinner landed on and find the

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sum. Then the students will cover the sum of the two numbers with their bingo chip.

Once a student has a bingo of five down the game will start over.

- <https://d.docs.live.net/b301ad444dccf4f7/EDU%20307%20-%20Math%20Methods/Three-Digit%20Addition%20Bingo.docx>

Rotation 2

Below Grade Level: Hands-on Math

Task: Students will work with a partner and play two-digit addition bingo.

- Two-Digit Addition Bingo - Students will play in groups of two. Each student will have a spinner, bingo card, bingo chips, and scratch paper. First the students will spin their spinner. Next, the students will take the numbers that each spinner landed on and find the sum. Then the students will cover the sum of the two numbers with their bingo chip. Once a student has a bingo of five down the game will start over.
 - <https://d.docs.live.net/b301ad444dccf4f7/EDU%20307%20-%20Math%20Methods/Two-Digit%20Addition%20Bingo.docx>

At Grade Level: Guided Instruction and Assessment

- Present students with a base-10 block equation and have them solve it on a whiteboard.
- Teach students about carrying numbers into the next place value and how important it is to set up their math equation neatly so that they keep the place values in line.
- Set up base-10 block equations on the table and have the students translate and solve the problem on a whiteboard.

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- Focus on adding three and four two-digit numbers with carrying to the hundreds place

Formative Assessment:

- Assess students while they work by making sure they understand how to use base-10 blocks, they know how to carry over, how to set up math equations, and they are adding correctly.

Above Grade Level: Technology

Task: Students will log into <https://www.ixl.com/math/grade-2> and complete the assigned skill.

- G.16 Add four or more numbers up to two-digits each: word problems.

Rotation 3

Below Grade Level: Technology

Task: Students will log into <https://www.ixl.com/math/grade-2> and complete the assigned skill.

- G.6 Add two two-digit numbers with regrouping.

At Grade Level: Hands-on Math

Task: Students will work in groups and play two-digit bingo with 3 or 4 numbers.

- Two-Digit Bingo with 3 or 4 Numbers - Students will play in group of 3 or 4. Each student will have a spinner, bingo card, bingo chips, and scratch paper. First the students will spin their spinner. Next, the students will take the numbers each spinner landed on and find the sum. Then the students will cover the sum of the three or four numbers with their bingo chip. Once a student has a bingo of five down the game will start over.
 - <https://d.docs.live.net/b301ad444dccb4f7/EDU%20307%20-%20Math%20Methods/Two-Digit%20Addition%20Bingo%20with%203-4%20Numbers.docx>

Above Grade Level: Guided Instruction

- Present students with a base-10 block equation and have them solve it on a whiteboard.
- Teach students about carrying numbers into the next place value and how important it is to set up their math equation neatly so that they keep the place values in line.
- Set up base-10 block equations on the table and have the students translate and solve the problem on a whiteboard.
 - Focus on adding three and four two-digit numbers with carrying to the hundreds place.

Formative Assessment:

- Assess students while they work by making sure they understand how to use base-10 blocks, they know how to carry over, how to set up math equations, and they are adding correctly.

Daily Math Rotations: Day 3			
	Rotation 1	Rotation 2	Rotation 3
Below Grade Level	<u>Guided Instruction and Assessment</u> Focus on word problems with two or three two-digit numbers. Exit Slip: word problems and technology.	<u>Hands-on Math</u> Two-Digit Addition Board Game	<u>Technology</u> IXL Math G.9 – Addition word problems up to two-digits.
At Grade Level	<u>Technology</u> IXL Math I.3 – Addition with three-digit numbers.	<u>Guided Instruction and Assessment</u> Focus on word problems with three or four two-digit numbers. Exit Slip: word problems and technology.	<u>Hands-on Math</u> Two-Digit Addition Board Game
Above Grade Level	<u>Hands-on Math</u> Three-Digit Addition Board Game	<u>Technology</u> IXL Math I.6 – Complete the addition sentence – up to three digits.	<u>Guided Instruction and Assessment</u> Focus on word problems with four two-digit numbers or two three-digit numbers. Exit Slip: word problems and technology.

Rotation 1

Below Grade Level: Guided Instruction and Assessment

- Present the students with a cup of popsicle sticks, on each popsicle stick is a two-digit equation. Have each student pick a stick and then solve the equation on a whiteboard.
- Next, explain to the student's what word problems are and important words in the problems that help them figure out how to solve it.
 - Add to/ Take from – addition or subtraction word problems that change over time
 - Put together/ Take apart – addition or subtraction word problems that do not change over time
 - Compare – comparing two whole numbers with words such as more or less.
- Have student pick word problems out of a bucket and read them. First have the students highlight the numbers that they will be putting into an equation. Then have the students circle what the word problem is telling them to do. Then have them solve their word problems. Have the students complete 5-word problems?
 - Word problems will focus on addition and have two or three two-digit numbers

Formative Assessment:

- Exit Slips: Collect the 5 word problems from the students to make sure they are highlighting and circling everything they need to correctly answer the word problem.
Also assess how the students are setting up the equations and carrying numbers over.

At Grade Level: Technology

Task: Students will log into <https://www.ixl.com/math/grade-2> and complete the assigned skill.

- I.3 Addition with three-digit numbers.

Above Grade Level: Hand-on Math

Task: Students will complete the addition equation in order to move forward.

- Three-Digit Addition Board Game – Students will work in pairs or groups. They will be given one die and pawns to complete the game. Students will roll the die and move that many spaces forward. The students will then find the sum of the math equation they landed on. If they get the equation right, they get to stay where they are but if they get the equation wrong, they must go back to where they were.
- See on page 21 for example
 - <https://d.docs.live.net/b301ad444dccf4f7/EDU%20307%20-%20Math%20Methods/Three-Digit%20Addition%20Board%20Game.docx>

Rotation 2

Below Grade Level: Hands-on Math

Task: Students will complete the addition equation in order to move forward.

- Two-Digit Addition Board Game – Students will work in pairs or groups. They will be given one die and pawns to complete the game. Students will roll the die and move that many spaces forward. The students will then find the sum of the math equation they landed on. If they get the equation right, they get to stay where they are but if they get the equation wrong, they must go back to where they were.
- See page 21 for similar example
 - <https://d.docs.live.net/b301ad444dccf4f7/EDU%20307%20-%20Math%20Methods/Two-Digit%20Addition%20Board%20Game.docx>

At Grade Level: Guided Instruction and Assessment

- Present the students with a cup of popsicle sticks, on each popsicle stick is a two-digit equation. Have each student pick a stick and then solve the equation on a whiteboard.

- Next, explain to the student's what word problems are and important words in the problems that help them figure out how to solve it.
 - Add to/ Take from – addition or subtraction word problems that change over time
 - Put together/ Take apart – addition or subtraction word problems that do not change over time
 - Compare – comparing two whole numbers with words such as more or less.
- Have student pick word problems out of a bucket and read them. First have the students highlight the numbers that they will be putting into an equation. Then have the students circle what the word problem is telling them to do. Then have them solve their word problems. Have the students complete 5-word problems?
 - Word problems will focus on addition and have three or four two-digit numbers.

Formative Assessment:

- Exit Slips: Collect the 5 word problems from the students to make sure they are highlighting and circling everything they need to correctly answer the word problem. Also assess how the students are setting up the equations and carrying numbers over.

Above Grade Level: Technology

Task: Students will log into <https://www.ixl.com/math/grade-2> and complete the assigned skill.

- I.6 Complete the addition sentence – up to three digits.

Rotation 3

Below Grade Level: Technology

Task: Students will log into <https://www.ixl.com/math/grade-2> and complete the assigned skill.

- G.9 Addition work problems up to two digits.

At Grade Level: Hands-on Math

Task: Students will complete the addition equation in order to move forward.

- Two-Digit Addition Board Game – Students will work in pairs or groups. They will be given once dice and pons to complete the game. Students will roll the dice and move that many spaces forward. The students will then find the sum of the math equation they landed on. If they get the equation right, they get to stay where they are but if they get the equation wrong, they must go back to where they were.
- See page 21 for similar example
 - <https://d.docs.live.net/b301ad444dccf4f7/EDU%20307%20-%20Math%20Methods/Two-Digit%20Addition%20Board%20Game%20with%204%20Numbers.docx>

Above Grade Level: Guided Instruction

- Present the students with a cup of popsicle sticks, on each popsicle stick is a three-digit equation. Have each student pick a stick and then solve the equation on a whiteboard.
- Next, explain to the student's what word problems are and important words in the problems that help them figure out how to solve it.
 - Add to/ Take from – addition or subtraction word problems that change over time
 - Put together/ Take apart – addition or subtraction word problems that do not change over time
 - Compare – comparing two whole numbers with words such as more or less.
- Have student pick word problems out of a bucket and read them. First have the students highlight the numbers that they will be putting into an equation. Then have the students

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circle what the word problem is telling them to do. Then have them solve their word problems. Have the students complete 5-word problems?

- Word problems will focus on addition and have four two-digit numbers or two three-digit numbers.

Formative Assessment:

- Exit Slips: Collect the 5 word problems from the students to make sure they are highlighting and circling everything they need to correctly answer the word problem. Also assess how the students are setting up the equations and carrying numbers over.



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193 + 842

303 + 627

631 + 220	Go Again!	405 + 612	701 + 315	602 + 637	Go Back 2 Spots	891 + 301	385 81
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502 91

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231 + 246	103 + 552	252 + 422	524 + 308	Go Back 2 Spots	423 + 115	101 91
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Start

Three-Digit Addition

Daily Math Rotations: Day 4			
	Rotation 1	Rotation 2	Rotation 3
Below Grade Level	<u>Guided Instruction and Assessment</u> Focus on adding three-two-digit numbers and carrying to the hundred Card activity, coloring page, and technology.	<u>Hands-on Math</u> Two-Digit Color by Numbers	<u>Technology</u> IXL Math G.13 – add three numbers up to two-digits each.
At Grade Level	<u>Technology</u> IXL Math I.5 – Addition word problems – up to three digits.	<u>Guided Instruction and Assessment</u> Focus on adding three-digit numbers to two-digit numbers. Card activity, coloring page, and technology.	<u>Hands-on Math</u> Two-Digit Color by Numbers
Above Grade Level	<u>Hands-on Math</u> Two-Digit Color by Numbers	<u>Technology</u> IXL Math I.7 – Write the addition sentence – up to three digits.	<u>Guided Instruction and Assessment</u> Focus on adding two three-digit numbers. Card activity, coloring page, and technology

Rotation 1

Below Grade Level: Guided Instruction and Assessment

- Introduce adding three two-digit numbers to the students and carrying to the hundreds place using the base-10 block. Again, stress the importance of setting up their problems

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neatly so they know what columns they should be adding together. Also make sure students are not forgetting to carry numbers over to the next column.

- Have each student draw six cards from a deck of cards with the faces cards and tens removed. Then have the students make three two-digit numbers with the cards that they drew. Next, have the students solve their equations on a whiteboard.
 - Have students complete this activity 3 times.

Formative Assessment:

- Assess students during guided instruction to ensure they are carrying the numbers over to the next column if needed and they are setting up their equations neatly.
- Students will also turn in coloring page from hands-on math to be assessed.

At Grade Level: Technology

Task: Students will log into <https://www.ixl.com/math/grade-2> and complete the assigned skill.

- I.5 Addition word problems – up to three digits.

Above Grade Level: Hand-on Math

- Students will work individually to find the sum of the equations and color the sections the corresponding color. Students will then be able to color the rest of the section colors of their choice. Students will then turn their coloring page in for formal assessment.
- See page 27 for example
 - <C:\Users\Krystal\OneDrive\EDU 307 - Math Methods\Two-Digit Color by Numbers with 4 Numbers.docx>

Rotation 2

Below Grade Level: Hands-on Math

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- Students will work individually to find the sum of the equations and color the sections the corresponding color. Students will then be able to color the rest of the section colors of their choice. Students will then turn their coloring page in for formal assessment.
- See page 27 for similar example
 - <https://d.docs.live.net/b301ad444dccf4f7/EDU%20307%20-%20Math%20Methods/Two-Digit%20Color%20by%20Numbers.docx>

At Grade Level: Guided Instruction and Assessment

- Introduce adding three-digit numbers to two-digit numbers the students and carrying to the hundreds place using the base-10 block. Again, stress the importance of setting up their problems neatly so they know what columns they should be adding together. Also make sure students are not forgetting to carry numbers over to the next column.
- Have each student draw five cards from a deck of cards with the faces cards and tens removed. Then have the students make one three-digit number and one two-digit number with the cards that they drew. Next, have the students solve their equations on a whiteboard.
 - Have students complete this activity 3 times.

Formative Assessment:

- Assess students during guided instruction to ensure they are carrying the numbers over to the next column if needed and they are setting up their equations neatly.
- Students will also turn in coloring page from hands-on math to be assessed.

Above Grade Level: Technology

Task: Students will log into <https://www.ixl.com/math/grade-2> and complete the assigned skill.

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- I.7 Write the addition sentence – up to three digits.

Rotation 3

Below Grade Level: Technology

Task: Students will log into <https://www.ixl.com/math/grade-2> and complete the assigned skill.

- G.13 Add three numbers up to two-digits each.

At Grade Level: Hands-on Math

- Students will work individually to find the sum of the equations and color the sections the corresponding color. Students will then be able to color the rest of the section colors of their choice. Students will then turn their coloring page in for formal assessment.
- See page 27 for example
 - <https://d.docs.live.net/b301ad444dccf4f7/EDU%20307%20-%20Math%20Methods/Two-Digit%20Color%20by%20Numbers%20with%204%20Numbers.docx>

Above Grade Level: Guided Instruction

- Introduce adding two three-digit numbers to the students and carrying to the thousands place using the base-10 block. Again, stress the importance of setting up their problems neatly so they know what columns they should be adding together. Also make sure students are not forgetting to carry numbers over to the next column.
- Have each student draw six cards from a deck of cards with the faces cards and tens removed. Then have the students make two three-digit numbers with the cards that they drew. Next, have the students solve their equations on a whiteboard.
 - Have students complete this activity 3 times.

Formative Assessment:

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- Assess students during guided instruction to ensure they are carrying the numbers over to the next column if needed and they are setting up their equations neatly.
- Students will also turn in coloring page from hands-on math to be assessed.

NAME _____

Color by Number



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Blue: 84

Yellow: 93

Red: 75

Purple: 98

Pink: 67

Green: 80

Daily Math Rotations: Day 5			
	Rotation 1	Rotation 2	Rotation 3
Below Grade Level	<u>Guided Instruction and Assessment</u> Review how to carry over to the tens and hundreds columns when adding three two-digit numbers. Creating puzzle pieces and technology	<u>Hands-on Math</u> Two-Digit Addition Puzzle	<u>Technology</u> Splash Math – Two-digit + two-digit with regrouping.
At Grade Level	<u>Technology</u> Splash Math – Three-digit + one-digit.	<u>Guided Instruction and Assessment</u> Review how to carry to the hundreds columns when adding four two-digit numbers. Creating puzzle pieces and technology	<u>Hands-on Math</u> Two-Digit Addition Puzzle
Above Grade Level	<u>Hands-on Math</u> Two-Digit Addition Puzzle	<u>Technology</u> Splash Math – Three-digit + three-digit.	<u>Guided Instruction and Assessment</u> Review how to carry to the hundreds and thousands column when adding four two-digit numbers and two three-digit numbers. Creating puzzle pieces and technology

Rotation 1

Below Grade Level: Guided Instruction and Assessment

- Review with the students how to carry over to the ten and hundreds column.
- Have students draw an equation out of a bucket then present them with a four-piece puzzle. On one piece the students must write the equations, on the next piece the students must write the equation in expanded form. Next, the students will write the answer of the equation on one of the pieces and then they will have to represent the answer of their equation using a drawing of base-10 blocks.
- The students will create 3 equation puzzle piece sets and then exchange them with the person beside them. The students will then to and solve each other's puzzles.
- See example on page 35

Formative Assessment:

- Collect puzzle pieces and assess that the students correctly representing their equation.

At Grade Level: Technology

Task: Students will log into <https://www.splashmath.com/addition-games-for-2nd-graders> and complete the assigned game.

- Three-digit + one-digit

Above Grade Level: Hand-on Math

- Students will complete the math equation on a puzzle piece and match it to the answer. Once students have finished putting the puzzles together, they will be given the answer key to check their answers.
- See page 34 for example

- <https://d.docs.live.net/b301ad444dccf4f7/EDU%20307%20-%20Math%20Methods/Two-Digit%20Addition%20Puzzles.docx>

Rotation 2

Below Grade Level: Hands-on Math

- Students will complete the math equation on a puzzle piece and match it to the answer.

Once students have finished putting the puzzles together, they will be given the answer key to check their answers.

- See page 34 for example
 - <https://d.docs.live.net/b301ad444dccf4f7/EDU%20307%20-%20Math%20Methods/Two-Digit%20Addition%20Puzzles.docx>

At Grade Level: Guided Instruction and Assessment

- Review with the students how to carry over to the ten and hundreds column.
- Have students draw an equation out of a bucket then present them with a four-piece puzzle. On one piece the students must write the equations, on the next piece the students must write the equation in expanded form. Next, the students will write the answer of the equation on one of the pieces and then they will have to represent the answer of their equation using a drawing of base-10 blocks.
- The students will create 3 equation puzzle piece sets and then exchange them with the person beside them. The students will then to and solve each other's puzzles.
- See example on page 35

Formative Assessment:

- Collect puzzle pieces and assess that the students correctly representing their equation.

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Above Grade Level: Technology

Task: Students will log into <https://www.splashmath.com/addition-games-for-2nd-graders> and complete the assigned game.

- Three-digit + three-digit

Rotation 3

Below Grade Level: Technology

Task: Students will log into <https://www.splashmath.com/addition-games-for-2nd-graders> and complete the assigned game.

- Two-digit + two-digit with regrouping

At Grade Level: Hands-on Math

- Students will complete the math equation on a puzzle piece and match it to the answer.

Once students have finished putting the puzzles together, they will be given the answer key to check their answers.

- See page 34 for example
 - <https://d.docs.live.net/b301ad444dccf4f7/EDU%20307%20-%20Math%20Methods/Two-Digit%20Addition%20Puzzles.docx>

Above Grade Level: Guided Instruction

- Review with the students how to carry over to the hundreds and thousands column.
- Have students draw an equation out of a bucket then present them with a four-piece puzzle. On one piece the students must write the equations, on the next piece the students must write the equation in expanded form. Next, the students will write the answer of the

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equation on one of the pieces and then they will have to represent the answer of their equation using a drawing of base-10 blocks.

- The students will create 3 equation puzzle piece sets and then exchange them with the person beside them. The students will then to and solve each other's puzzles.
- See example of page 35

Formative Assessment:

Collect puzzle pieces and assess that the students correctly representing their equation.

Two-Digit Addition Puzzle

$$\begin{array}{r} 89 \\ 69 \\ 30 \\ + 87 \\ \hline \end{array}$$

275

$$\begin{array}{r} 39 \\ 18 \\ 81 \\ + 63 \\ \hline \end{array}$$

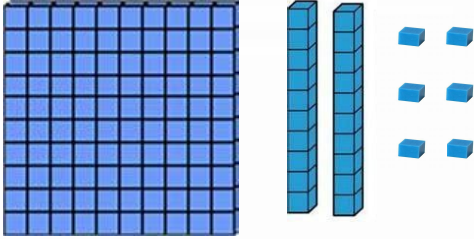
201

Below Grade Level Day 5 Rotation 1 Guided Instruction

The image shows a 2x2 grid of puzzle pieces. The top-left piece contains the addition problem $28 + 47 + 51$. The top-right piece contains the addition problem $20 + 8 + 40 + 7 + 50 + 1$. The bottom-left piece contains a base ten block model consisting of a 10x10 grid of blue unit cubes, two blue rods (each representing 10 units), and six blue unit cubes. The bottom-right piece contains the number 126.

28
 47
 $+ 51$

$20 + 8$
 $40 + 7$
 $+ 50 + 1$



126