

BURCH CHARTER SCHOOL OF EXCELLENCE

2020-2021

Mathematics Grade 2

Approved by the Burch Charter School of Excellence Board of Trustees

August 2020

MISSION STATEMENT OF BURCH CHARTER SCHOOL OF EXCELLENCE:

Burch Charter School of Excellence (BCSE) was founded in September, 2008. Our primal mission is to enable students to reach their intellectual and personal potential. We strive to instill integrity and respect in our students' in partnership with families and the community. We maintain a blended learning environment that enhances positive character traits that ensures our students become productive 21st century world citizens. The Burch Charter School of Excellence, a public school, is committed to providing best practices for educating our students in an environment that enables them to develop into critical thinkers that evolve into digital, life-long learners. Our curriculum emphasizes literacy and mathematics infused with technology.

We believe:

- Our students will be effective communicators, quality producers, self-directed lifelong learners, community contributors, collaborative workers and complex thinkers;
- All students are entitled to opportunities to maximize their talents and abilities;
- Our ethnic and cultural diversity is our strength and prepares students for success in a global society;
- Setting high expectations for students, teachers and administrators ensures that our students successfully meet or exceed the New Jersey Student Learning Standards.
- Parents are essential partners in the education of their children;
- Maintaining a strong partnership with the Irvington community is integral to student success;
- Understanding, implementing and responding to current trends in technology is intrinsic to success in a 21st century world; In ensuring that the district has a well-trained, highly qualified and competent staff; In maintaining a safe and secure learning environment.

The underlying values and principles that drive our mission and vision are our personal responsibility, a strong work ethic, cooperation, respect for others, honesty, integrity and the firm belief that every child can learn.

Grade: Second		Content: Math
Unit: 1		Time Frame: 43-45 days
New Jersey Learning Standards	Mathematical Practices	Skills
2.OA.A.1. Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. *(benchmarked)	MP.1 Make sense of problems and persevere in solving them. MP 2 Reason abstractly and quantitatively. MP.3 Construct viable arguments and critique the reasoning of others. MP.4 Model with mathematics.	 Count on and put together to add to solve one- and two-step word problems. Take from or take apart to subtract to solve one- and two-step word problems. Use drawings and equations to represent the problem.
 Essential Question(s): How can I use addition and subtraction to solve one and two –step word problems? What strategies and models can we use to understand how to solve an addition or subtraction problem? 	MP.5 Use appropriate tools strategically. MP.8 Look for and express regularity in repeated reasoning.	
2.OA.B.2. Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers. *(benchmarked)	MP 2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure. MP.8 Look for and express regularity in repeated reasoning.	 Add within 10 using mental strategies with accuracy and efficiency. Subtract within 10 using mental strategies with accuracy and efficiency.
 Essential Question(s): How can mental math strategies help me add and subtract numbers fluently within 20? 		
 I Can Statements I can add and subtract to solve word problems. I can recall basic math facts from memory. 	,	
2.NBT.A.1. Understand that the three digits of a three- digit number represent amounts of hundreds, tens, and	MP 2 Reason abstractly and quantitatively.	100 can be thought of as a bundle of ten tens — called a <i>hundred</i> .

ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. Understand the following as special cases: 2.NBT.A.1.a. 100 can be thought of as a bundle of ten tens — called a "hundred." 2.NBT.A.1.b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones). Essential Question(s):	MP.7 Look for and make use of structure. MP.8 Look for and express regularity in repeated reasoning.	 The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones). Represent 100 as a bundle of ten tens. Represent the number of hundreds, tens, and ones in a 3-digit number.
How can we represent and compare numbers? 2.NBT.A.2. Count within 1000; skip-count by 5s, 10s, and 100s. *(benchmarked)	MP 2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure.	 Count by fives within 1000. Count by tens within 1000. Count by hundreds within 1000
 Essential Question(s): What patterns do I notice when I count by 1's? What patterns do I notice when I skip count by 5s, 10s, and 100s? 	MP.8 Look for and express regularity in repeated reasoning.	
2.NBT.A.3. Read and write numbers to 1000 using baseten numerals, number names, and expanded form.	MP 2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure.	 Expanded Form Read numbers to 1000 written using baseten numerals. Read number names to 1000.
 Essential Question(s): How can I read and write numbers using base ternumerals, number names, and expanded form? 	MP.8 Look for and express regularity in repeated reasoning.	 Read numbers to 1000 written in expanded form. Write numbers to 1000 using base-ten numerals, number names, and expanded form.
2.NBT.A.4. Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.	MP 2 Reason abstractly and quantitatively. MP.6 Attend to precision.	 Place value Use the number of the hundreds, tens and/or ones digits to compare two three-
 Essential Question(s): How do you know the value of a number? How does the position of a digit in a number affect its value? 	MP.7 Look for and make use of structure. MP.8 Look for and express regularity in repeated reasoning.	digit numbers.Write the results of the comparison using >, =, or <.

2.NBT.B.8. Mentally add 10 or 100 to a given number	MP 2 Reason abstractly and quantitatively.	Place value
100–900, and mentally subtract 10 or 100 from a given number 100–900.	MP.7 Look for and make use of structure.	Mentally add 10 or 100 from any given number between 100 and 900.
	MD 9 Look for and arrange regularity in remoted rescening	Mentally subtract 10 or 100 from any given
Essential Question(s):	MP.8 Look for and express regularity in repeated reasoning.	number between 100 and 900.
How do predictable patterns help me understand		
how numbers work when adding and subtracting?		
subtracting:		

I Can Statements

- I can explain three-digit numbers using hundreds, tens, and ones.
- I can explain 100 is a bundle of ten tens.
- I can explain how many hundreds are in multiples of 100
- I can skip-count by 5's within 1000.
- I can skip-count by 10's within 1000.
- I can skip-count by 100's within 1000.
- I can read numbers to 1000.
- I can write numbers to 1000 in different forms.
- I can compare three-digit numbers using symbols.
- I can add 10 to a given number in my head.
- I can add 100 to a given number in my head.
- I can subtract 10 from a given number in my head.
- I can subtract 100 from a given number in my head.

Resources	
https://sso.rumba.pk12ls.com/ EnvisionMath	www.mobymax.com www.iready.com
 Benchmarks Assessments Fluency Practice Vocabulary Review Topic Assessments 	www.abcya.com www.khanacedmy.com www.funbrain.com www.splashlearn.com
1 Topic / issessments	

Differentiated Instruction

(content, process, product and learning environment)		
At Risk Students	English Language Learners	
Modifications for Classroom	Modifications for Classroom	
Pair visual prompts with verbal presentations	Native Language Translation	
Use of lab or experiments to give visual representation of concept	(peer, online assistive technology, translation device, bilingual dictionary)	
Ask students to restate information, directions, and assignments.	Preteach vocabulary	
Work within group or partners	Use graphic organizers or other visual models	
Panatition and practice	Use of manipulatives to	
Repetition and practice	visualize concept	
Model skills / techniques to be mastered.	Highlight key vocabulary-chart or vocabulary bank	
Use metacognitive work	Use of nonverbal responses	
Extended time to complete class work	(thumbs up/down)	
Provide copy of class notes	Use sentence frames	
Student may request to use a computer to complete assignments.	Design questions for different proficiency levels	
Use manipulatives to examine concepts	Utilize partners and partner talk	
Assign a peer helper in the class setting		
Provide oral reminders and check student work during independent work time		
Special Education	Gifted and Talented	

Modifications for Classroom

Pair visual prompts with verbal presentations

Use of lab or experiments to give visual representation of concept

Ask students to restate information, directions, and assignments.

Preteach vocabulary

Repetition and practice

Model skills / techniques to be mastered.

Use manipulatives and visual representation to examine Breakdown large assignments into smaller tasks

Extended time to complete class work

Provide copy of class notes

Preferential seating to be mutually determined by the student and teacher

Use of online component of book

Extra textbooks for home. Student may request books on tape / CD / digital media, as available and appropriate.

Assign a peer helper in the class setting

Provide oral reminders and check student work during independent work time

Assist student with long and short term planning of assignments

Extension Activities

Conduct research and provide presentation of cultural topics.

Design surveys to generate and analyze data to be used in discussion.

Use of Higher Level
Questioning Techniques

Provide assessments at a higher level of thinking

Create alternative assessment which requires writing, research and presentation

Grade: Second		Content: Math
Unit: 2		Time Frame: 43-45 days
New Jersey Learning Standards	Mathematical Practices	Skills
2.OA.A.1. Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. *(benchmarked)	MP 2 Reason abstractly and quantitatively. MP.3 Construct viable arguments and critique the reasoning of others. MP.4 Model with mathematics.	 Count on and put together to add to solve one- and two-step word problems. Take from or take apart to subtract to solve one- and two-step word problems. Use drawings and equations to represent the problem.
 Essential Question(s): How can I use addition and subtraction to solve one and two –step word problems? What strategies and models can we use to understand how to solve an addition or subtraction problem? 	MP.5 Use appropriate tools strategically. MP.8 Look for and express regularity in repeated reasoning.	
 2.OA.B.2. Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.*(benchmarked) Essential Question(s): How can mental math strategies help me add and subtract numbers fluently within 20? 	MP 2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure. MP.8 Look for and express regularity in repeated reasoning.	 Add within 10 using mental strategies with accuracy and efficiency. Subtract within 10 using mental strategies with accuracy and efficiency.
2.OA.C.3. Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends Essential Question(s):	MP 2 Reason abstractly and quantitatively. MP.3 Construct viable arguments and critique the reasoning of others. MP.7 Look for and make use of structure. MP.8 Look for and express regularity in repeated reasoning	 Even: groups having even numbers of objects will pair up evenly. Odd: groups having odd numbers of objects will not pair up evenly. Pair up to 20 object, count by 2s and determine whether the group contains an even or odd number of objects. Write an equation to express an even number as a sum of two equal addends.

 2.OA.C.4. Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends Essential Question(s): How can I use addition to find the total number of objects in an array? 		 Arrays as arrangements of objects. With objects arranged in an array, use repeated addition to find the total. With objects arranged in an array, write an equation to express repeated addition.
 I Can Statement I can add and subtract to solve word problems. I can fluently add and subtract within 20 in my h I can recall basic math facts from memory. I can tell whether a group of objects is odd or even in the solution of the solution	en	
 2.G.A.2. Partition a rectangle into rows and columns of same-size squares and count to find the total number of them. Essential Question(s): How can I draw or identify a shape based off of its number of angles or equal faces? 	MP 2 Reason abstractly and quantitatively. MP.6 Attend to precision. MP.8 Look for and express regularity in repeated reasoning.	Partition a rectangle into rows and columns of same-size squares and count to find the total number.
I Can Statements		
I can partition a rectangle into rows and columns	of same-size squares and count the total number.	
2.NBT.B.5. Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. *(benchmarked) Essential Question(s):	MP 2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure. MP.8 Look for and express regularity in repeated reasoning.	 With accuracy and efficiency, add and subtract within 50 using strategies based on place value. With accuracy and efficiency, add and subtract within 50 using strategies based on properties of operations. With accuracy and efficiency, add and

 How can I use strategies to help me add and subtract numbers? How can models and strategies help me add and subtract larger numbers? 		subtract within 50 using strategies based on the relationship between addition and subtraction.
 2.NBT.B.6. Add up to four two-digit numbers using strategies based on place value and properties of operations. Essential Question(s): What strategies can I use to help me add two or more two-digit numbers? How can models and strategies help me add and subtract larger numbers? 	MP 2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure. MP.8 Look for and express regularity in repeated reasoning.	 Add three two digit numbers using place value strategies and properties of operations. Add four two digit numbers using place value strategies and properties of operations.
 2.NBT.B.7. Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds. Essential Question(s): How can models and strategies help me add and subtract larger numbers? How does a number change when 10 or 100 is added or subtracted? 	MP 2 Reason abstractly and quantitatively. MP.4 Model with mathematics. MP.5 Use appropriate tools strategically. MP.7 Look for and make use of structure. MP.8 Look for and express regularity in repeated reasoning.	 In adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones. Sometimes it is necessary to compose or decompose tens or hundreds. Add and subtract within 1000, using concrete models or drawings. Add and subtract within 1000 using strategies based on place value. Add and subtract within 1000 using properties of operations or the relationship between addition and subtraction. Relate the strategies to a written method.
2.NBT.B.9. Explain why addition and subtraction strategies work, using place value and the properties of operations.	MP 2 Reason abstractly and quantitatively. MP.3 Construct viable arguments and critique the reasoning of others.	 Explain, using objects and drawings, why addition and subtraction strategies based on place value work. Explain, using objects and drawings, why
 Essential Question(s): How can I explain why my addition and subtraction strategies work? 	MP.4 Model with mathematics. MP.5 Use appropriate tools strategically. MP.7 Look for and make use of structure.	addition and subtraction strategies based on properties of operations work.

	MP.8 Look for and express regularity in repeated reasoning.	
	MP 2 Reason abstractly and quantitatively.	• Count within 1000 by ones.
and 100s. *(benchmarked)	MD 7 L and for and make war of stone stone	• Count within 1000 by fives, tens, and
	MP.7 Look for and make use of structure.	hundreds beginning at any multiple of 5,
Essential Question(s):		10, or 100.
• What patterns do I notice when I count by 1's?	MP.8 Look for and express regularity in repeated reasoning.	
What patterns do I notice when I skip count by		
5s, 10s, and 100s?		

I Can Statements

- I can fluently add and subtract within 100 using my understanding of place value and the properties of addition and subtraction.
- I can add up to four two-digit numbers using my understanding of place value and the properties of addition
- I can add within 1000 using strategies I can explain.
- I can subtract within 1000 using strategies I can explain.
- I can relate addition and subtraction strategies to written methods.
- I can add 10 to a given number in my head. I can add 100 to a given number in my head.
- I can subtract 10 from a given number in my head.
- I can subtract 100 from a given number in my head.

I can explain why addition strategies work. I can explain why subtraction strategies work.		
Resources		
https://sso.rumba.pk12ls.com/	www.mobymax.com	
EnvisionMath	www.iready.com	
Benchmarks Assessments	www.abcya.com	
Fluency Practice	www.khanacedmy.com www.funbrain.com	
Vocabulary Review	www.splashlearn.com	
Topic Assessments		

Differentiated Instruction (content, process, product and learning environment)		
At Risk Students	English Language Learners	
<u>Modifications for Classroom</u>	Modifications for Classroom	
Pair visual prompts with verbal presentations Use of lab or experiments to give visual representation of concept Ask students to restate information, directions, and assignments. Work within group or partners Repetition and practice Model skills / techniques to be mastered. Use metacognitive work Extended time to complete class work Provide copy of class notes Student may request to use a computer to complete assignments. Use manipulatives to examine concepts Assign a peer helper in the class setting Provide oral reminders and check student work during independent work time	Native Language Translation (peer, online assistive technology, translation device, bilingual dictionary) Preteach vocabulary Use graphic organizers or other visual models Use of manipulatives to visualize concept Highlight key vocabulary-chart or vocabulary bank Use of nonverbal responses (thumbs up/down) Use sentence frames Design questions for different proficiency levels Utilize partners and partner talk	

Special Education	Gifted and Talented
Modifications for Classroom	
Pair visual prompts with verbal presentations	Extension Activities Conduct research and provide presentation of cultural topics.
Use of lab or experiments to give visual representation of concept	Design surveys to generate and analyze data to be used in discussion.
Ask students to restate information, directions, and assignments.	Use of Higher Level Questioning Techniques
Preteach vocabulary	
Repetition and practice	Provide assessments at a higher level of thinking
Model skills / techniques to be mastered.	Create alternative assessment which requires writing, research and presentation
Use manipulatives and visual representation to examine	•
Breakdown large assignments	
into smaller tasks	
Extended time to complete	
class work	
Provide copy of class notes	
Preferential seating to be mutually determined by the student	
and teacher	
Use of online component of book	
Extra textbooks for home. Student may request books on tape / CD / digital media, as available and appropriate.	
Assign a peer helper in the class setting	
Provide oral reminders and check student work during	

independent work time	
Assist student with long and short term planning of assignments	

Grade: Second		Content: Math
Unit: 3		Time Frame: 43-45 days
New Jersey Learning Standards	Mathematical Practices	Skills
2.MD.A.1. Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.	MP.5 Use appropriate tools strategically. MP.6 Attend to precision.	Measure lengths of objects using rules, yardsticks, meter sticks and measuring tapes.
Essential Question(s): • How do we measure length?	MP.7 Look for and make use of structure.	
measurements; describe how the two measurements relate	MP 2 Reason abstractly and quantitatively. MP.3 Construct viable arguments and critique the reasoning of others. MP.5 Use appropriate tools strategically.	 Measure the length of an object using different units of measure. Compare the measurements and explain how they relate to each unit.
Essential Question(s): • How can we compare two objects?	MP.6 Attend to precision. MP.7 Look for and make use of structure.	
2.MD.A.3. Estimate lengths using units of inches, feet, centimeters, and meters	MP.5 Use appropriate tools strategically. MP.6 Attend to precision.	Estimate lengths of objects.
 Essential Question(s): How do we know when it is appropriate to estimate or when to measure using appropriate 	MP.7 Look for and make use of structure.	

tools?		
2.MD.A.4. Measure to determine how much longer one object is than another, expressing the length difference in	MP.5 Use appropriate tools strategically. MP.6 Attend to precision.	 Measure objects, comparing to determine how much longer one object is than another. Express the difference in length in terms of a standard unit of measure.
Essential Question(s):		
of rulers) and equations with a symbol for the unknown	MP.1 Make sense of problems and persevere in solving them. MP 2 Reason abstractly and quantitatively. MP.4 Model with mathematics. MP.5 Use appropriate tools strategically.	 Add and subtract, within 100, to solve word problems involving lengths (lengths are given in the same units). Use drawings to represent the problem. Use number sentences with a symbol for the unknown to represent the problem.
Essential Question(s):How can I use addition and subtraction strategies to solve word problems?		
2.MD.B.6. Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2,, and represent whole-number sums and differences within 100 on a number line diagram. Essential Question(s):	MP 2 Reason abstractly and quantitatively. MP.5 Use appropriate tools strategically.	 Use equally spaced points of a number line to represent whole numbers as lengths from 0. Represent whole number sums within 100 on a number line diagram. Represent whole number differences within 100 on a number line diagram.
How can I use addition and subtraction strategies to solve word problems? 2.MD.C.7. Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	MP.5 Use appropriate tools strategically.	Use analog and digital clocks, tell time to the nearest five minutes using a.m. and
 Essential Question(s): How do I tell time using an analog clock? How do I tell time using a digital clock? 	MP.6 Attend to precision.	 p.m. Use analog and digital clocks, write time to the nearest five minutes using a.m. and p.m.

• When do I use A.M.?		
• When do I use P.M.?		
Can Statements		
 I can select appropriate tools for measuring lengt I can measure the length of an object. I can measure the length of objects using differer I can describe the relationship of different length I can estimate lengths using inches and feet. I can estimate lengths using centimeters and met I can add to solve word problems that involve ler I can subtract to solve word problems that involv I can add using a number line. I can subtract using a number line 	ers. egth.	
 I can tell time to the nearest five minutes. 		
2.NBT.A.2. Count within 1000; skip-count by 5s, 10s, and 100s. *(benchmarked)	MP 2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure.	 Count within 1000 by ones. Count within 1000 by fives, tens, and hundreds beginning at any multiple of 5,
 Essential Questions What patterns do I notice when I count by 1's? What patterns do I notice when I skip count by 5s, 10s, and 100s? 	MP.8 Look for and express regularity in repeated reasoning.	10, or 100.
2.NBT.B.5. Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. (benchmarked)	MP 2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure. MP.8 Look for and express regularity in repeated reasoning.	 Place value Relationship between addition and subtraction Properties of Operations
Essential Question(s);		
 How can I use strategies to help me add and subtract numbers? How can models and strategies help me add and subtract larger numbers? 		 Add and subtract within 100 using place value strategies. Add and subtract within 100 using properties of operations and the relationship between addition and subtraction
Can Statements		
• I can skip-count by 5's within 1000.		

- I can skip-count by 10's within 1000.I can skip-count by 100's within 1000.

Resources	
https://sso.rumba.pk12ls.com/ EnvisionMath	www.mobymax.com www.iready.com www.abcya.com www.khanacedmy.com www.funbrain.com www.splashlearn.com

Differentiated Instruction (content, process, product and learning environment)		
At Risk Students	English Language Learners	
Modifications for Classroom	Modifications for Classroom	
Pair visual prompts with verbal presentations Use of lab or experiments to give visual representation of concept Ask students to restate information, directions, and assignments. Work within group or partners Repetition and practice Model skills / techniques to be mastered. Use metacognitive work Extended time to complete class work Provide copy of class notes Student may request to use a computer to complete assignments. Use manipulatives to examine concepts Assign a peer helper in the class setting Provide oral reminders and check student work during independent work time	Native Language Translation (peer, online assistive technology, translation device, bilingual dictionary) Preteach vocabulary Use graphic organizers or other visual models Use of manipulatives to visualize concept Highlight key vocabulary-chart or vocabulary bank Use of nonverbal responses (thumbs up/down) Use sentence frames Design questions for different proficiency levels Utilize partners and partner talk	

Special Education	Gifted and Talented
Modifications for Classroom	
Pair visual prompts with verbal presentations	Extension Activities Conduct research and provide presentation of cultural topics.
Use of lab or experiments to give visual representation of concept	Design surveys to generate and analyze data to be used in discussion.
Ask students to restate information, directions, and assignments.	Use of Higher Level Questioning Techniques
Preteach vocabulary	
Repetition and practice	Provide assessments at a higher level of thinking
Model skills / techniques to be mastered.	Create alternative assessment which requires writing, research and presentation
Use manipulatives and visual representation to examine	•
Breakdown large assignments	
into smaller tasks	
Extended time to complete	
class work	
Provide copy of class notes	
Preferential seating to be mutually determined by the student	
and teacher	
Use of online component of book	
Extra textbooks for home. Student may request books on tape /	
CD / digital media, as available and appropriate.	
Assign a peer helper in the class setting	
Provide oral reminders and check student work during	

independent work time	
Assist student with long and short term planning of assignments	

Grade: 43-45 days		Content: Math
Unit: 4		Time Frame: 43-45 days
New Jersey Learning Standards	Mathematical Practices	Skills
2.G.A.1. Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. Essential Question(s):	MP 2 Reason abstractly and quantitatively. MP.6 Attend to precision. MP.8 Look for and express regularity in repeated reasoning.	 Draw shapes having specified attributes (e.g. number of equal faces, number of angles) Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.
 How can I draw or identify a shape based off of its number of angles or equal faces? How can I find the area of a rectangle? 		
2.G.A.3. Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.	MP.4 Model with mathematics. MP.7 Look for and make use of structure.	 Equal shares of identical wholes need not have the same shape. Partition rectangles into two, three, or four equal shares. Partition two same-sized rectangles to show that equal shares of identical wholes need not have the same shape. Describe the shares using the words
 Essential Question(s): Why is it important to identify fractions as representations of equal parts of a whole or of a set? Why is it important to label fractions as representations of equal parts of a whole or of a set? 		halves, thirds, fourths, half of, a third of, a fourth of, etc. Recognize and then describe the whole as two halves, three thirds, four fourths.
 I Can Statements I can identify shapes based on their attributes. I can divide circles and rectangles into equal part I can describe equal parts as part of a whole. I can recognize equal shares of identical shapes of 		
2.MD.C.8. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and \$\phi\$	MP.1 Make sense of problems and persevere in solving them.	Know the value of dollar bills, quarters, dimes, nickels, and pennies.

	MP 2 Reason abstractly and quantitatively.	Identify dollar bills, quarters, dimes,
Example: If you have 2 dimes and 3 pennies, how many cents do you have?	MP.4 Model with mathematics.	 nickels, and pennies. Using dollar bills, quarters, dimes, nickels, and pennies, count to determine the total
What is a penny, nickel, dime, and quarter	MP.5 Use appropriate tools strategically. MP.8 Look for and express regularity in repeated reasoning.	 amount of money. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies.
the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.	MP.4 Model with mathematics. MP.5 Use appropriate tools strategically. MP.6 Attend to precision. MP.8 Look for and express regularity in repeated reasoning.	 Generate data. Generate measurement data by measuring lengths, to the nearest whole unit, of several objects or by making repeated measurements of the same object. Record the measurements in a line plot having a horizontal scale in whole number units.
compare problems using information presented in a bar graph.	MP.1 Make sense of problems and persevere in solving them. MP 2 Reason abstractly and quantitatively. MP.4 Model with mathematics. MP.5 Use appropriate tools strategically. MP.6 Attend to precision. MP.8 Look for and express regularity in repeated reasoning.	 Draw a picture graph to represent a data set with up to four categories. Draw a bar graph to represent a data set with up to four categories. Use information in a bar graph to solve simple put together, take apart, and compare problems.
I Can Statements • I can solve word problems involving money.	MI to Look for and express regularity in repeated reasoning.	

• I can use the \$ and ¢ symbols.

I can collect data by measuring lengths.			
 I can make a line plot to show data. 			
I can draw a picture graph. I can draw a bar grap	h.		
• I can solve problems using a bar graph.			
2.OA.B.2. Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers. *(benchmarked)	MP 2 Reason abstractly and quantitatively. MP.7 Look for and make use of structure. MP.8 Look for and express regularity in repeated reasoning.		 Add within 20 using mental strategies with accuracy and efficiency. Subtract within 20 using mental strategies with accuracy and efficiency.
Essential Question(s):			
 How can mental math strategies help me add and subtract numbers fluently within 20? 	I		
I Can Statements	•		
• I can fluently add and subtract within 20 in my h	ead.		
I can recall basic math facts from memory.			
2.NBT.B.5. Fluently add and subtract within 100 using			With accuracy and efficiency, add and
strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	subtract within 100 using place value MP.7 Look for and make use of structure. strategies, properties of operations and		
*(benchmarked)	the relationship between addition an		strategies, properties of operations and/or
(conominance)	MP.8 Look for and express regularity in repeated reasoning.		subtraction.
Essential Question(s):			
How can I use strategies to help me add and			
subtract numbers?			
How can models and strategies help me add and	d		
subtract larger numbers?			
I Can Statements	<u> </u>		1
I can fluently add and subtract within 100 us	sing my understanding of place va	lue and the properties of addition and	subtraction.
	Resor	irces	
https://sso.rumba.pk12ls.com/	https://sso.rumba.pk12ls.com/		
EnvisionMath		www.iready.com	
Benchmarks Assessments		www.abcya.com	
		www.khanacedmy.com	

Fluency Practice	www.funbrain.com
Vocabulary Review	www.splashlearn.com
Topic Assessments	

Differentiated Instruction (content, process, product and learning environment)		
(content, process, prod	uci ana tearning environment)	
At Risk Students	English Language Learners	
Modifications for Classroom	Modifications for Classroom	
Pair visual prompts with verbal presentations	Native Language Translation (peer, online assistive technology, translation device, bilingual dictionary)	
Use of lab or experiments to give visual representation of concept Ask students to restate information, directions, and assignments.	Preteach vocabulary Use graphic organizers or other visual models	
Work within group or partners		
Repetition and practice	Use of manipulatives to visualize concept	
Model skills / techniques to be mastered.	Highlight key vocabulary-chart or vocabulary bank	
Use metacognitive work	Use of nonverbal responses (thumbs up/down)	
Extended time to complete class work	Use sentence frames	
Provide copy of class notes Student may request to use a computer to complete assignments.	Design questions for different proficiency levels	
Use manipulatives to examine concepts	Utilize partners and partner talk	

Assign a peer helper in the class setting	
Provide oral reminders and check student work during independent work time	
Special Education	Gifted and Talented
Modifications for Classroom	
Pair visual prompts with verbal presentations	Extension Activities Conduct research and provide presentation of cultural topics.
Use of lab or experiments to give visual representation of concept	Design surveys to generate and analyze data to be used in discussion.
Ask students to restate information, directions, and assignments.	Use of Higher Level Questioning Techniques
Preteach vocabulary	
Repetition and practice	Provide assessments at a higher level of thinking
Model skills / techniques to be mastered.	Create alternative assessment which requires writing, research and presentation
Use manipulatives and visual representation to examine	prosentation
Breakdown large assignments into smaller tasks	
Extended time to complete	
class work	
Provide copy of class notes	
Preferential seating to be mutually determined by the student and teacher	
Use of online component of book	

Extra textbooks for home. Student may request books on tape / CD / digital media, as available and appropriate.	
Assign a peer helper in the class setting	
Provide oral reminders and check student work during independent work time	
Assist student with long and short term planning of assignments	