Grade 1 Math
Diary map is based on the 2017-2018 school year. Information may change year to year. Months are guidelines and items may be done at different times of the year.

Month	Essential Questions	Content	Skills	Assessment	Resources	Technology

Common Core Standards for Mathematical Content		**Common Core Standards for Mathematical Practice**

Common Core Standards for Mathematical Content

Operations and Algebraic Thinking
1.OA.A   Represent and solve problems involving addition and subtraction.
1.OA.B   Understand and apply properties of operations and the relationship between addition and subtraction.
1.OA.C   Add and subtract within 20.
1.OA.D   Work with addition and subtraction equations.

Number and Operations in Base Ten
1.NDT.A   Extend the counting sequence.
1.NDT.B   Understand place value.
1.NDT.C   Use place value understanding and properties of operations to add and subtract.

Measurement and Data
1.MD.A   Measure lengths indirectly and by iterating length units.
1.MD.B   Tell and write time.
1.MD.C   Represent and interpret data.

Geometry
1.G.A   Reason with shapes and their attributes.

Common Core Standards for Mathematical Practice
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.
MP.5   Use appropriate tools strategically.
MP.6   Attend to precision.
MP.7   Look for and make use of structure.
MP.8   Look for and express regularity in repeated reasoning.

*Practice standards are ongoing all year.

Aug.-Sept. Standards: 1.OA.A.1 1.OA.B.3 1.OA.C.6 1.OA.D.7 1.OA.D.8	Addition Concepts How are numbers added?	Addition Concepts -Addition Stories -Model Addition -Addition Number Sentences -Add 0 -Vertical Addition -Problem Solving -Ways to make 4, 5, 6, 7, 8, 9, and 10 -Missing parts of 10 -True and False Statements	Addition Concepts -Use manipulatives to model addition stories -Add two parts to make a whole -Write addition number sentences -Find sums by adding zero -Write addition facts horizontally and vertically -Write number sentences to solve problems -Use counters to make sums of 4, 5, 6, 7, 8, and 9 in different ways	Addition Concepts McGraw-Hill *My Math* Grade 1, Volume 1 (2016) -Check My Progress -Fact Fluency -Chapter Assessment	Addition Concepts -McGraw-Hill *My Math* Grade 1, Volume 1 (2016)	Addition Concepts -SMART Board -iPads

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			-Use a ten-frame and counters to make sums of ten in different ways -Identify missing parts of 10 -Identify math statements as true or false			
Oct.-Nov. **Standards:** 1.OA.A.1 1.OA.B.3 1.OA.D.6 1.OA.D.7	**Subtraction Concepts** How are numbers subtracted?	**Subtraction Concepts** -Subtraction Stories -Model Subtraction -Subtraction Number Sentences -Subtract 0 and All -Vertical Subtraction -Problem Solving -Compare Groups -Ways to subtract 4, 5, 6, 7, 8, 9, and 10 -Relate Addition and Subtraction -True and False Statements	**Subtraction Concepts** -Use manipulatives to model subtraction stories -Subtract parts from whole -Write subtraction number sentences -Subtract 0 or find a difference of 0 -Write subtraction facts horizontally and vertically -Draw diagrams to solve problems -Compare groups of up to nine objects -Use counters to subtract the difference of 4, 5, 6, 7, 8, and 9 in different ways -Find related addition and subtraction facts -Determine whether math statements are true or false	**Subtraction Concepts** McGraw-Hill *My Math* Grade 1, Volume 1 (2016) -Check My Progress -Fact Fluency -Chapter Assessment	**Subtraction Concepts** -McGraw-Hill *My Math* Grade 1, Volume 1 (2016)	**Subtraction Concepts** -SMART Board -iPads
Nov.-Dec. **Standards:** 1.OA.A.1 1.OA.A.2	**Addition Strategies to 20** How are strategies used to add numbers?	**Addition Strategies to 20** -Count on 1, 2, or 3 -Count on using pennies -Use a number line to	**Addition Strategies to 20** -Count on from the greater number to find the sum	**Addition Strategies to 20** McGraw-Hill *My Math* Grade 1, Volume 1 (2016)	**Addition Strategies to 20** -McGraw-Hill *My Math* Grade 1, Volume 1 (2016)	**Addition Strategies to 20** -SMART Board -iPads

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1.OA.B.3 1.OA.C.5 1.OA.C.6		add -Use doubles and near doubles to add -Problem solving: Act it Out -Make ten to add -Add in any order -Add three numbers	-Use pennies to count on -Use a number line to help find the sum -Use doubles and near doubles to help find the sum -Act it out to solve problems -Use counters and a ten frame to make sums greater than ten -Identify related addition facts -Add three numbers by using doubles and making ten	-Check My Progress -Fact Fluency -Chapter Assessment		
Dec.- Jan. **Standards:** 1.OA.A.1 1.OA.A.2 1.OA.B.3 1.OA.B.4 1.OA.C.5 1.OA.C.6	**Subtraction Strategies to 20** How are strategies used to subtract numbers?	**Subtraction Strategies to 20** -Count back 1, 2, or 3 -Use a number line to subtract -Use doubles to subtract -Write a number sentence -Make 10 to subtract -Use related facts to add and subtract -Fact families -Missing Addends	**Subtraction Strategies to 20** -Count back by 1, 2, or 3 -Use a number line to subtract -Relate double addition facts to subtraction facts -Write a number sentence to solve problems -Use the make ten to subtract strategy -Identify similarities in related addition and subtraction number sentences -Identify similarities in fact families -Find the missing addend	**Subtraction Strategies to 20** McGraw-Hill *My Math* Grade 1, Volume 1 (2016) -Check My Progress -Fact Fluency -Chapter Assessment	**Subtraction Strategies to 20** -McGraw-Hill *My Math* Grade 1, Volume 1 (2016)	**Subtraction Strategies to 20** -SMART Board -iPads
Jan.-Feb. **Standards:**	**Place Value** How is place value used?	**Place Value** -Numbers 11-19 -Tens	**Place Value** -Count and write numbers 11 to 19	**Place Value** McGraw-Hill *My Math* Grade 1, Volume 1	**Place Value** -McGraw-Hill *My Math* Grade 1, Volume 1	**Place Value** -SMART Board -iPads

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Month	Essential Questions	Content	Skills	Assessment	Resources	Technology
1.OA.A.1 1.OA.B.4 1.OA.C.5 1.OA.C.6 1.NBT.A.1 1.NBT.B.2 1.NBT.B.2 1.NBT.B.2 1.NBT.B.3 1.NBT.C.5		-Count by tens using dimes -Ten and some more -Tens and ones -Make a table -Numbers to 100 -Ten more, ten less -Count by 5's -Use models to compare numbers -Use symbols to compare numbers -Numbers to 120 -Count to 120 -Read and write numbers to 120	-Count groups of tens -Use dimes to count by tens -Make groups of ten and some more -Make groups of tens and ones -Make tables to solve problems -Write numbers to 100 in different ways -Identify numbers that are ten more and ten less than a given number -Use nickels to count by fives -Compare two two-digit numbers using symbols -Make groups of hundreds, tens, and ones -Count numerals up to 120 -Read and write numbers up to 120	(2016) -Check My Progress -Fact Fluency -Chapter Assessment	(2016)	
Feb. **Standards:** 1.NBT.C.4 1.NBT.C.6	**Two-Digit Addition and Subtraction** How are two-digit numbers added and subtracted?	**Two-Digit Addition and Subtraction** -Add tens -Count on tens and ones -Add tens and ones -Problem Solve	**Two-Digit Addition and Subtraction** -Count on by tens and ones to find sums within 100 -Add tens and ones to find sums within 100 -Guess, check, revise to solve problems	**Two-Digit Addition and Subtraction** McGraw-Hill *My Math* Grade 1, Volume 1 (2016) -Check My Progress -Fact Fluency -Chapter Assessment	**Two-Digit Addition and Subtraction** -McGraw-Hill *My Math* Grade 1, Volume 1 (2016)	**Two-Digit Addition and Subtraction** -SMART Board -iPads
March-April **Standards:**	**Two-Digit Addition and Subtraction** How are two-digit numbers added and subtracted?	**Two-Digit Addition and Subtraction** -Add tens and ones with regrouping -Subtract tens	**Two-Digit Addition and Subtraction** -Add tens and ones and find the sum with regrouping	**Two-Digit Addition and Subtraction** McGraw-Hill *My Math* Grade 1, Volume 1 (2016)	**Two-Digit Addition and Subtraction** -McGraw-Hill *My Math* Grade 1, Volume 1 (2016)	**Two-Digit Addition and Subtraction** -SMART Board -iPads

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1.NBT.C.4 1.NBT.C.6 1.MD.C.4		-Count back by tens -Related addition and subtraction of tens	-Subtract tens to find the difference - Use a number line to count back by tens to subtract - Relate addition and subtraction facts to solve problems	-Check My Progress -Fact Fluency -Chapter Assessment		
	Organize and Use Graphs How are graphs made and read?	**Organize and Use Graphs** -Tally charts -Make a table -Make and read picture graphs -Make and read bar graphs	**Organize and Use Graphs** -Make and read a tally chart - Make a table to solve problems -Make a picture graph -Interpret data on a picture graph -Use data to make a bar graph - Read a bar graph	**Organize and Use Graphs** McGraw-Hill *My Math* Grade 1, Volume 1 (2016) -Check My Progress -Fact Fluency -Chapter Assessment	**Organize and Use Graphs** -McGraw-Hill *My Math* Grade 1, Volume 1 (2016)	**Organize and Use Graphs** -SMART Board -iPads
April-May Standards: 1.MD.A.1 1.MD.A.2 1.MD.B.3	**Measurement and Time** How is length and time determined?	**Measurement and Time** -Compare and order lengths -Nonstandard units of length -Problem solving strategies -Time to the hour: Analog and Digital -Time to the half hour: Analog and Digital	**Measurement and Time** -Compare lengths of objects using indirect measurement -Compare and order lengths of objects -Measure the length of objects using nonstandard units -Guess, check, and revise to solve problems -Read and write time to the hour and half hour on an analog clock -Use a digital clock to tell and write time to the	**Measurement and Time** McGraw-Hill *My Math* Grade 1, Volume 1 (2016) -Check My Progress -Fact Fluency -Chapter Assessment	**Measurement and Time** -McGraw-Hill *My Math* Grade 1, Volume 1 (2016)	**Measurement and Time** -SMART Board -iPads

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Month	Essential Questions	Content	Skills	Assessment	Resources	Technology
			hour and half hour			
May **Standards:** 1.G.A.1 1.G.A.2 1.G.A.3	**Two Dimensional Shapes and Equal Shares** How are two-dimensional shapes and equal shares recognized?	**Two Dimensional Shapes and Equal Shares** -Squares, rectangles, triangles, trapezoids, and circles -Compare shapes -Composite shapes -Problem Solving using logical reasoning -Equal parts -Halves -Quarters and Fourths	**Two Dimensional Shapes and Equal Shares** -Use attributes to identify and describe squares, rectangles, trapezoids, triangles, and circles -Compare two-dimensional shapes -Use two-dimensional shapes to make a composite shape and compose new shapes from the composite shape -Use logical reasoning to solve problems -Partition shapes into two or four equal shares and identify how many parts there are in the whole -Partition shapes into two and four equal parts	**Two Dimensional Shapes and Equal Shares** McGraw-Hill *My Math* Grade 1, Volume 1 (2016) -Check My Progress -Fact Fluency -Chapter Assessment	**Two Dimensional Shapes and Equal Shares** -McGraw-Hill *My Math* Grade 1, Volume 1 (2016)	**Two Dimensional Shapes and Equal Shares** -SMART Board -iPads