

Math Alive Curriculum with CCSS, Mathematical Practices

Grade K

Module	Concept	Common Core State Standards	MATHEMATICAL PRACTICES	Domain
12				
Numbers 0 to 5	Count 1 - 3	K.CC.B.4a, K.CC.B.5	MP2, MP3, MP4, MP5	Number&Operations
	Read and Write 1, 2, and 3	K.CC.B.4b, K.CC.B.5	MP1, MP2, MP4, MP8	
	Count 4 and 5	K.CC.A.3	MP2, MP3, MP5, MP6	Number&Operations
	Read and Write 4 and 5	K.CC.B.4a, K.CC.B.5	MP2, MP3, MP4, MP5	Number&Operations
		K.CC.B.4b, K.CC.B.5	MP1, MP2, MP4, MP8	
	Identify the Number 0, Read and Write 0	K.CC.A.3	MP2, MP4, MP5, MP6	Number&Operations
	Ways to Make 5	K.CC.B.4a, K.CC.B.5, K.CC.A.3	MP1, MP2, MP3, MP4, MP5, MP6	Number&Operations
Compare Numbers 0 to 5	Count Numbers to 5	K.OA.A.3, K.CC.B.4	MP5, MP7, MP8	Number&Operations
	Equal Groups	K.CC.B.4c, K.CC.B.4a	MP1, MP3, MP5, MP7, MP8	Number&Operations
	Greater Than	K.CC.C.6	MP2, MP4, MP6, MP7	Number&Operations
	Less Than	K.CC.C.6	MP2, MP3, MP4, MP6	Number&Operations
	Compare Groups to 5 by Counting	K.CC.C.6, K.CC.C.7	MP1, MP3, MP6, MP8	Number&Operations
	Compare Numbers to 5	K.CC.C.7	MP2, MP4, MP5, MP6	Number&Operations
	Count 6 and 7	K.CC.B.4a	MP2, MP3, MP4, MP5	Number&Operations
Numbers 6 to 10	Read and Write 6 and 7	K.CC.A.3, K.CC.B.5	MP2, MP3, MP5, MP6	Number&Operations
	Count 8 and 9	K.CC.B.4a	MP2, MP3, MP4, MP5	Number&Operations
	Read and Write 8 and 9	K.CC.A.3, K.CC.B.5	MP2, MP3, MP5, MP6	Number&Operations
	Count 10, Read and Write 10	K.CC.B.4a, K.CC.B.4b	MP2, MP3, MP4, MP5	Number&Operations
	Ways to Make 10	K.OA.A.3, K.CC.B.4, K.CC.C.7	MP1, MP2, MP7, MP8	Number&Operations
	Compare Numbers Using Numerals to 10	K.CC.C.6	MP2, MP3, MP4, MP8	Number&Operations
		K.CC.C.6, K.CC.C.7	MP1, MP2, MP6, MP8	
Compare Numbers 0 to 10, Classify and Count Data	Compare Groups to 10 by Counting	K.CC.C.6, K.CC.C.7	MP2, MP3, MP5, MP6	Number&Operations
	Compare Numbers to 10	K.CC.C.7	MP2, MP3, MP4, MP6	Number&Operations
	Count Numbers to 10	K.CC.A.2, K.CC.B.4c, K.CC.C.7	MP2, MP3, MP4, MP6, MP7	Number&Operations
	Classify Objects Into Categories	K.MD.B.3	MP1, MP2, MP3, MP6	Measurement&Data
	Sort the Categories by Counting	K.MD.B.3	MP2, MP6, MP7, MP8	Measurement&Data
		K.MD.B.3	MP1, MP5, MP6, MP7	
	Represent Addition as Adding To	K.OA.A.1	MP3, MP4, MP6	Operations&Algebra
Understand Addition	Represent Addition as Putting Together	K.OA.A.1, K.CC.A.2	MP1, MP2, MP3, MP5	Operations&Algebra
	Represent and Explain Addition with Equation	K.OA.A.1	MP2, MP4, MP5, MP8	Operations&Algebra
	Use Patterns to Develop Fluency in Addition	K.OA.A.1	MP2, MP3, MP6	Operations&Algebra
		K.OA.A.1	MP1, MP2, MP4, MP6	
		K.OA.A.2	MP4(MP2, MP3)	Operations&Algebra
Understand Subtraction	Represent Subtraction as Taking Apart	K.OA.A.1	MP1, MP2, MP3, MP4	Operations&Algebra
	Represent Subtraction as Taking From	K.OA.A.1	MP2, MP3, MP4, MP5	
	Represent and Explain Subtraction with Equations	K.OA.A.1, K.OA.A.2	MP1, MP2, MP3, MP4	Operations&Algebra
	Use Patterns to Develop Fluency in Subtraction	K.OA.A.1	MP2, MP5, MP6, MP7	Operations&Algebra
		K.OA.A.1	MP2, MP4, MP6	
More Addition and Subtraction	Decompose and Represent Numbers to 5	K.OA.A.5	MP1, MP4, MP7, MP8	Operations&Algebra
	Related Facts	K.OA.A.3	MP2, MP3, MP4, MP5	Operations&Algebra
	Decompose and Represent 6 - 9	K.OA.A.5	MP1, MP2, MP5, MP6	Operations&Algebra
	Decompose and Represent 10	K.OA.A.3	MP2, MP3, MP4, MP5	Operations&Algebra
		K.OA.A.3	MP2, MP4, MP5, MP6	
	Find the Missing Part of 10	K.OA.A.3	MP2, MP4, MP6, MP7, MP8	Operations&Algebra
		K.OA.A.4	MP2, MP4, MP5, MP8	Operations&Algebra
Count Numbers to 20, Compose and Decompose Numbers 11 to 19	Count and Write 11 - 15	K.CC.A.3, K.CC.B.5	MP2, MP3, MP4, MP6	Number&Operations
		K.CC.A.3, K.CC.B.5	MP3, MP4, MP6, MP8	
	Count and Write 16 - 20	K.CC.A.3, K.CC.B.5	MP2, MP4, MP6, MP7	Number&Operations
	Count Forward from Any Number to 20	K.CC.A.3, K.CC.B.5	MP1, MP5, MP7, MP8	Number&Operations
		K.CC.A.2, K.CC.B.4c	MP2, MP4, MP6, MP7	
	Make 11 - 19	K.NO.A.1	MP2, MP4, MP5, MP7	Number&Operations
		K.NO.A.1	MP2, MP3, MP4, MP7	
Count Numbers to 100	Find Parts of 11 - 19	K.NO.A.1	MP1, MP2, MP4, MP7	Number&Operations
		K.NO.A.1	MP4, MP6, MP7, MP8	
		K.NO.A.1	MP4, MP5, MP7, MP8	Number&Operations
		K.NO.A.1	MP1, MP4, MP6, MP8	
	Count Using Patterns to 50	K.CC.A.1, K.CC.A.2	MP1, MP2, MP6, MP7	Number&Operations
		K.CC.A.1, K.CC.A.2	MP1, MP6, MP7, MP8	
	Count by Tens to 100	K.CC.A.1	MP2, MP3, MP4, MP7	Number&Operations
Identify and Describe Shapes	Count by Tens and Ones	K.CC.A.1, K.CC.A.2	MP1, MP2, MP3, MP6	Number&Operations
	Count Forward from Any Number to 100	K.CC.A.1, K.CC.A.2	MP1, MP5, MP7, MP8	Number&Operations
	Count Using Patterns to 100	K.CC.A.1, K.CC.A.2	MP2, MP5, MP6, MP7	Number&Operations
	Two-Dimensional (2-D) and Three-Dimensional (3-D) Shapes	K.G.A.3	MP3, MP6, MP7	Geometry
	Circles, Triangles	K.G.A.2, K.G.B.4	MP2, MP5, MP6, MP7	Geometry
	Squares and Other Rectangles	K.G.A.2, K.G.B.4	MP2, MP6, MP7, MP8	Geometry
	Hexagons	K.G.A.2, K.G.B.4	MP3, MP5, MP6, MP7	Geometry
Analyze, Compare, and Create Shapes	Solid Figures	K.G.A.2, K.G.B.4	MP2, MP4, MP6, MP7	Geometry
	Describe Shapes in the Environment	K.G.A.1, K.G.A.2, K.G.A.3	MP1, MP3, MP6, MP7	Geometry
	Describe the Position of Shapes in the Environment	K.G.A.1	MP1, MP2, MP3, MP6	Geometry
	Analyze and Compare Two-Dimensional (2-D) Shapes	K.G.B.4	MP2, MP4, MP6, MP7	Geometry
	Analyze and Compare Three-Dimensional (3-D) Shapes	K.G.B.4	MP1, MP2, MP3, MP7	Geometry
	Compare 2-D and 3-D Shapes	K.G.B.4	MP2, MP5, MP6	Geometry
	Make 2-D Shapes from Other 2-D Shapes	K.G.B.6, K.G.B.5	MP1(MP3, MP5, MP6)	Geometry

Describe and Compare Measurable Attributes	Build 2-D Shapes	K.G.B.5, K.G.B.4	MP2, MP3, MP4, MP7	Geometry
	Build 3-D Shapes	K.G.B.5, K.G.B.6	MP1, MP2, MP4, MP5, MP6	Geometry
	Compare by Length and Height	K.MD.A.2	MP2, MP5, MP6, MP7	Measurement&Data
	Compare by Capacity	K.MD.A.2	MP2, MP3, MP6, MP8	Measurement&Data
	Compare by Weight	K.MD.A.2	MP2, MP3, MP4, MP8	Measurement&Data
	Describe Objects by Measurable Attributes	K.MD.A.1	MP1, MP2, MP5, MP6	Measurement&Data
		K.MD.A.1	MP4, MP5, MP6, MP7	

Math Alive Curriculum with CCSS, Mathematical Practices

Grade 1



Module	Topic	Concept	Common Core State Standards	MATHEMATICAL PRACTICES	Domain
10					
Solve Addition and Subtraction Problems to 10	Solve Addition Problems to 10	Add To	1.OA.A.1	MP1, MP4, MP5, MP6	Operations&Algebra
		Put Together	1.OA.A.1	MP1, MP4, MP5	
		Both Addends Unknown	1.OA.A.1	MP1, MP4, MP5	
	Solve Subtraction Problems to 10	Take From	1.OA.A.1	MP1, MP2, MP4	Operations&Algebra
		Count how many more	1.OA.A.1	MP1, MP4, MP6	
		Count how many fewer	1.OA.A.1	MP1, MP4, MP6	
	Count On to Add Within 10	Count On to Add Within 10	1.OA.C.5	MP1, MP6, MP8	Operations&Algebra
		Add in Any Order Within 10	1.OA.B.3	MP1, MP4, MP6	
		Count On to Add Within 10(from greater addend)	1.OA.C.5	MP1, MP6, MP8	
Fluently Add and Subtract Within 10 and Count on to Add Within 20	Use Models to Add Within 10	Doubles Within 10	1.OA.C.6	MP5, MP7, MP8	Operations&Algebra
		Near Doubles Within 10	1.OA.C.6	MP6, MP7	
		Facts with 5 on a Ten-Frame Within 10	1.OA.C.6	MP2, MP5	
	Fluently Subtract Within 10	Count Back to Subtract Within 10	1.OA.C.5	MP2, MP4, MP6	Operations&Algebra
		Think Addition to Subtract Within 10	1.OA.B.4	MP3, MP4, MP7	
		Solve Word Problems with Facts to 10	1.OA.A.1	MP1, MP2, MP3, MP4	
	Count on to Add Within 20	Count On to Add Within 20	1.OA.C.5	MP1, MP6, MP8	Operations&Algebra
		Count On to Add Using an Open Number Line	1.OA.C.5	MP1, MP6, MP8	
Use strategies to find addition and subtraction facts	Use Models to Add Within 20	Doubles Within 20	1.OA.C.6	MP5, MP7, MP8	Operations&Algebra
		Doubles Plus 1	1.OA.C.6	MP6, MP7	
		Doubles Plus 2	1.OA.C.6	MP6, MP7	
	Make 10 to Add Within 20	Add 10 and More	1.OA.C.6	MP2, MP5	Operations&Algebra
		Make 10 to Add	1.OA.C.6	MP2, MP5	
		Make 10 to Add by using a number line	1.OA.C.6	MP2, MP4	
	Use Models to Subtract Within 20	Count to Subtract Within 20	1.OA.C.5	MP2, MP4, MP6	Operations&Algebra
		Make 10 to Subtract Within 20	1.OA.C.6	MP2, MP4, MP5, MP8	
		Continue to Make 10 to Subtract	1.OA.C.6	MP2, MP4, MP5, MP8	
Addition and Subtraction Equation	Use Fact Families to Subtract Within 20	Fact Families	1.OA.C.6	MP1, MP5, MP7, MP8	Operations&Algebra
		Use Addition to Subtract Within 20	1.OA.B.4	MP3, MP4, MP7	
		Continue to Use Addition to Subtract	1.OA.D.8	MP2, MP4, MP7	
	Work with Addition and Subtraction Equations	Find the Unknown Numbers	1.OA.D.8	MP1, MP7, MP8	Operations&Algebra
		True or False Equations	1.OA.D.7	MP2, MP6, MP7	
		Make True Equations	1.OA.D.7	MP2, MP6, MP7	
	Add Three Numbers	Add Three Numbers with cubes	1.OA.B.3	MP2, MP3	Operations&Algebra
		Find Different Strategies to Add Three Numbers	1.OA.B.3	MP3, MP8	
		Solve Addition and Subtraction Word Problems	1.OA.A.1, 1.OA.A.2	MP1, MP2, MP3, MP4	
Represent and Interpret Data and Count to 120	Represent and Interpret Data	Organize Data into Three Categories	1.MD.C.4	MP1, MP3, MP4	Measurement&Data
		Collect and Represent Data	1.MD.C.4	MP3, MP4, MP6	
		Interpret Data	1.MD.C.4	MP3, MP5, MP6	
	Count by 1s and 10s to 120	Count by 10s to 120	1.NO.B.2c	MP4, MP7, MP8	Number&Operations
		Count by 1s to 120	1.NO.A.1	MP5, MP7, MP8	
		Count on a Number Chart to 120	1.NO.A.1	MP2, MP5, MP7, MP8	
	Count to 120 using models	Count by 1s or 10s to 120	1.NO.A.1	MP2, MP5, MP7, MP8	Number&Operations
		Count on an Open Number Line	1.NO.A.1	MP2, MP5, MP7, MP8	
		Count and Write Numerals	1.NO.A.1	MP2, MP6, MP8	
Understand Tens & Ones and order of Numbers	Count with Groups of Tens and Leftovers	Make Numbers 11 to 19	1.NO.B.2b	MP3, MP5, MP6	Number&Operations
		Numbers Made with Tens	1.NO.B.2a, 1.NO.B.2c	MP4, MP7, MP8	
		Count with Groups of Tens and Leftovers	1.NO.B.2b	MP2, MP4, MP5, MP6	
	Tens and Ones	Tens and Ones	1.NO.B.2b	MP3, MP5, MP6	Number&Operations
		Show Numbers in Different Ways	1.NO.B.2a, 1.NO.B.3	MP1, MP4, MP6, MP7	
		Numbers from 100 to 120	1.NO.A.1	MP2, MP4, MP5, MP6, MP7	
	Understand order of numbers	1 More, 1 Less & 10 More, 10 Less	1.NO.C.5	MP1, MP2, MP3, MP6	Number&Operations
		Make Numbers on a Hundred Chart	1.NO.C.5	MP1, MP2, MP3, MP6	
Compare 2-Digit Numbers and Add Tens and Ones	Compare 2-Digit Numbers	Compare 2-Digit Numbers	1.NO.B.3	MP2, MP4, MP6	Number&Operations
		Compare 2-Digit Numbers with Symbols	1.NO.B.3	MP1, MP4, MP8	
		Compare 2-Digit Numbers on a Number Line	1.NO.B.3	MP2, MP4, MP6	
	Count On Tens and Ones	Add Tens	1.NO.C.4	MP2, MP7	Number&Operations
		Count On Tens and Ones	1.NO.C.4	MP2, MP7	
		Add Tens and Ones Using a Hundred Chart	1.NO.C.4	MP4, MP5, MP6	
	Add Tens and Ones using Models	Add Tens and Ones Using an Open Number Line	1.NO.C.4	MP4, MP6	Number&Operations
		Add Tens and Ones Using Models	1.NO.C.4	MP4, MP6	
		Add Tens and Ones	1.NO.C.4	MP1, MP2, MP6, MP7	
Add 2-Digit Numbers to making a Ten and Subtract Tens	Add 2-Digit Numbers by making a Ten	Make a Ten to Add	1.NO.C.4	MP2, MP5	Number&Operations
		Add 2-Digit Numbers by making a Ten	1.NO.C.4	MP1, MP2, MP6, MP7	
	Use Models to Subtract Tens	Subtract Tens Using Models	1.NO.C.6	MP1, MP2, MP3, MP8	Number&Operations
		Subtract Tens Using a Hundred Chart	1.NO.C.6	MP1, MP2, MP3, MP8	
		Subtract Tens Using an Open Number Line	1.NO.C.6	MP1, MP2, MP3, MP8	
	Use Strategies to Subtract Tens	Use Addition to Subtract Tens	1.NO.C.4	MP2, MP3, MP7	Number&Operations
		Ten Less Than a Number	1.NO.C.5	MP1, MP2, MP3, MP6	
		Use Strategies to Practice Subtraction	1.NO.C.4	MP2, MP3, MP7	
Measure length and Understand time	Compare objects by Length	Compare and Order by Length	1.MD.A.1	MP1, MP3, MP6	Measurement&Data
		Indirect Measurement	1.MD.A.1	MP1, MP3, MP4	
		Use Units to Measure Length	1.MD.A.2	MP1, MP2, MP6, MP8	
	Use objects to measure length	Measure and Compare	1.MD.A.2	MP1, MP3	Measurement&Data
		Use Two Units to Measure and Compare	1.MD.A.2	MP2, MP3, MP5	
	Understand Time(Hour and Minute Hand, Hour and Half Hour)	Understand the Hour and Minute Hands	1.MD.B.3	MP5, MP6, MP7	Measurement&Data
		Tell and Write Time to the Hour	1.MD.B.3	MP5, MP6, MP7	
		Tell and Write Time to the Half Hour	1.MD.B.3	MP1, MP2, MP8	

Understand Attributes of Shapes and Equal Shares of Circles and Rectangles	Define Two-Dimensional (2-D) Shapes	Use Attributes to Define Two-Dimensional (2-D) Shapes	1.G.A.1	MP6, MP7, MP8	Geometry
		Defining and Non-Defining Attributes of 2-D Shapes	1.G.A.1	MP6, MP7, MP8	
		Build and Draw 2-D Shapes by Attributes	1.G.A.1	MP6, MP7, MP8	
	Compose with Two-Dimensional (2-D) Shapes	Compose with 2-D Shapes	1.G.A.2	MP5, MP6	Geometry
		Find Shapes in Shapes	1.G.A.2	MP4, MP5	
		Compose New 2-D Shapes from 2-D Shapes	1.G.A.2	MP1, MP4	
	Define Three-Dimensional (3-D) Shapes	Use Attributes to Define Three-Dimensional (3-D) Shapes	1.G.A.1	MP4, MP6, MP8	Geometry
		Defining and Non-Defining Attributes of 3-D Shapes	1.G.A.1	MP4, MP6, MP8	
		Compose with 3-D Shapes	1.G.A.2	MP1, MP2, MP3, MP6	
	Equal Shares of Circles and Rectangles	Make Equal Shares	1.G.A.3	MP1, MP3, MP6	Geometry
		Make Halves and Fourths of Rectangles and Circles	1.G.A.3	MP1, MP4, MP6	
		Understand Halves and Fourths	1.G.A.3	MP1, MP4, MP6	

Math Alive Curriculum with CCSS, Mathematical Practices



Grade 2

Module	Topic	Concept	Common Core State Standards	MATHEMATICAL PRACTICES	Domain
10					
Fluently Add and Subtract Within 20	Fluently Add Within 20	Addition Fact Strategies	2.OA.B.2	MP1, MP7, MP8	Operations&Algebra
		Doubles and Near Doubles	2.OA.B.2	MP1, MP4, MP7, MP8	
		Make a 10 to Add	2.OA.B.2	MP1, MP5, MP6, MP7, MP8	
	Fluently Add and Subtract Within 20	Add Three Numbers	2.OA.B.2, 2.NO.B.5	MP1, MP6, MP7, MP8	Operations&Algebra
		Addition Fact Patterns	2.OA.B.2	MP1, MP7, MP8	
		Count On and Count Back to Subtract	2.OA.B.2	MP1, MP3, MP4	
	Fluently Subtract Within 20	Use Doubles to Subtract	2.OA.B.2	MP2, MP6, MP7, MP8	Operations&Algebra
		Think Addition to Subtract	2.OA.B.2	MP2, MP6, MP7, MP8	
		Fact Families	2.OA.B.2	MP2, MP6, MP7, MP8	
Understand Even and Odd and Add Within 100	Understand Even and Odd Numbers and Array Totals	Even and Odd Numbers	2.OA.C.3	MP1, MP3, MP4, MP6, MP7	Operations&Algebra
		Continue Even and Odd Numbers	2.OA.C.3	MP2, MP3, MP4, MP5, MP7, MP8	
		Use Arrays to Find Totals	2.OA.C.4	MP1, MP5, MP6, MP7	
	Add Within 100 using Models	Add Tens and Ones on a Hundred Chart	2.NO.B.5, 2.NO.B.9	MP1, MP4, MP6, MP7	Number&Operations
		Add Tens on an Open Number Line	2.NO.B.5, 2.NO.B.9	MP1, MP4, MP6, MP7	
		Add Tens and Ones on an Open Number Line	2.NO.B.5, 2.NO.B.9	MP1, MP4, MP6, MP7	
	Add Within 100 Using Strategies	Break Apart Two addends to Add	2.NO.B.5	MP1, MP3, MP6, MP8	Number&Operations
		Break Apart a Second addend to Add	2.NO.B.5	MP1, MP3, MP6, MP8	
		Add 2-Digit Numbers Using Compensation	2.NO.B.5	MP1, MP4, MP5, MP6	
Add and Subtract Within 100	Add 2-Digit Numbers using Partial Sums and Place Value	Add with Partial Sums	2.NO.B.5	MP1, MP5, MP6, MP7	Number&Operations
		Add 2-Digit Numbers Using Place Value	2.NO.B.5, 2.NO.B.9	MP1, MP4, MP6, MP7	
		Add 2-Digit Numbers	2.NO.B.5, 2.NO.B.9	MP1, MP3, MP5, MP6, MP8	
	Find Sums for 2, 3, and 4 Addends	Find Sums for 3 Addends	2.NO.B.6	MP3, MP4, MP6, MP8	Number&Operations
		Find Sums for 4 Addends	2.NO.B.6	MP1, MP3, MP6, MP8	
		Subtract Tens and Ones on a Hundred Chart	2.NO.B.5	MP3, MP5, MP7	Number&Operations
	Subtract Within 100 using Models	Count Back to Subtract on an Open Number Line	2.NO.B.5	MP1, MP4, MP5	
		Add up to Subtract using an Open Number Line	2.NO.B.5	MP1, MP2, MP6	
	Subtract Within 100	Subtract Within 100 Using Strategies	Break Apart Numbers(1-Digit Numbers) to Subtract	2.NO.B.5	MP1, MP5, MP6, MP8
Break Apart Numbers(2-Digit Numbers) to Subtract			2.NO.B.5	MP1, MP3, MP5, MP6, MP8	
Subtract 2-Digit Numbers using Compensation			2.NO.B.5	MP1, MP4, MP5, MP6	
Subtract 2-Digit and 1-Digit Numbers		Regroup 1 Ten for 10 Ones	2.NO.B.5	MP2, MP5, MP6, MP7	Number&Operations
		Models to Subtract 2-Digit and 1-Digit Numbers	2.NO.B.5, 2.NO.B.9	MP1, MP4, MP6, MP7	
		Subtract 2-Digit and 1-Digit Numbers	2.NO.B.5, 2.NO.B.9	MP2, MP5, MP6, MP8	
Subtract 2-Digit Numbers		Models to Subtract 2-Digit Numbers	2.NO.B.5, 2.NO.B.9	MP1, MP4, MP6, MP7	Number&Operations
		Subtract 2-Digit Numbers	2.NO.B.5, 2.NO.B.9	MP2, MP5, MP6, MP8	
		Use Addition to Check Subtraction	2.NO.B.5	MP2, MP6, MP7, MP8	
Solve Problems and Understand Money and Time	Solving Problems Involving Addition and Subtraction	Write Equations to Represent Addition	2.NO.B.5, 2.OA.A.1	MP1, MP2, MP4, MP6, MP8	Number&Operations
		Write Equations to Represent Subtraction	2.NO.B.5, 2.OA.A.1	MP1, MP2, MP3, MP4, MP5	
		Solve Two-Step Problems	2.NO.B.5, 2.OA.A.1	MP1, MP2, MP4	
	Work with Money	Dime, Nickels, Pennies, and Quarters	2.MD.C.8	MP1, MP2, MP4, MP6, MP7	Measurement&Data
		Count collections of coins	2.MD.C.8	MP3, MP4, MP6, MP8	
		Dollar Bills	2.MD.C.8	MP4, MP6, MP7	
	Understand Time(Five Minutes, AM and PM)	Tell Time to Five Minutes	2.MD.C.7	MP3, MP4, MP6, MP8	Measurement&Data
		Tell Time Before and After the Hour	2.MD.C.7	MP1, MP6, MP8	
		A.M. and P.M	2.MD.C.7	MP1, MP2, MP3, MP6, MP7	
Understand and Compare Ways to Represent 3-Digit Numbers	Understand 3-Digit Numbers	Understand Hundreds	2.NO.A.1a	MP4, MP6, MP7, MP8	Number&Operations
		Models and 3-Digit Numbers	2.NO.A.1	MP1, MP4, MP7	
		Name Place Values of 3-Digit Numbers	2.NO.A.1, 2.NO.A.3	MP1, MP4, MP7, MP8	
	Different Ways to Name the Same Number	Read and Write 3-Digit Numbers	2.NO.A.3	MP2, MP6, MP7	Number&Operations
		10 More, 10 Less & 100 More, 100 Less	2.NO.B.8	MP1, MP2, MP6, MP7	
		Skip Count by 5s, 10s, and 100s to 1,000	2.NO.A.2	MP5, MP7, MP8	
	Skip Count and Compare 3-Digit Numbers	Compare 3-Digit Numbers Using Place Value	2.NO.A.4	MP1, MP2, MP3, MP4, MP6	Number&Operations
		Compare 3-Digit Numbers on the Number Line	2.NO.A.4	MP1, MP2, MP3, MP4, MP6	
		Subtract 10 and 100	2.NO.B.8	MP1, MP2, MP6, MP7	
Add and Subtract Within 1,000	Add Within 1,000 Using Models and Strategies	Add on an Open Number Line	2.NO.B.8	MP1, MP2, MP6, MP7	Number&Operations
		Add 3-Digit Numbers Using Strategies	2.NO.B.7	MP1, MP3, MP6, MP8	
		Regroup ones to add 3 digit numbers	2.NO.B.7	MP3, MP4, MP5, MP6, MP8	
	Add 3-digit numbers with Regrouping	Regroup tens to add 3 digit numbers	2.NO.B.7	MP2, MP6, MP8	Number&Operations
		Add 3 digit numbers with Regrouping	2.NO.B.7, 2.NO.B.9	MP1, MP3, MP6, MP8	
		Subtract 10 and 100	2.NO.B.8	MP1, MP2, MP6, MP7	
	Subtract Within 1,000 Using Models and Strategies	Count Back to Subtract on an Open Number Line	2.NO.B.8	MP1, MP2, MP6, MP7	Number&Operations
		Subtract 3-Digit Numbers Using Strategies	2.NO.B.7	MP1, MP3, MP5, MP6, MP8	
		Regroup tens to subtract 3 digit numbers	2.NO.B.7	MP1, MP6, MP8	
Subtract 3-digit numbers with Regrouping and Measure Length	Subtract 3-digit numbers with Regrouping	Regroup hundreds to subtract 3 digit numbers	2.NO.B.7, 2.NO.B.9	MP1, MP3, MP6, MP8	Number&Operations
		Subtract 3 digit numbers with Regrouping	2.NO.B.7	MP1, MP3, MP6, MP7, MP8	
		Measure with Inches	2.MD.A.1	MP2, MP5, MP6, MP8	
	Measure Length Using Customary Units	Inches, Feet, and Yards	2.MD.A.1	MP2, MP5, MP6	
		Measure Length Using Different Customary Units	2.MD.A.1	MP3, MP5, MP6, MP8	
		Measure Length Using Metric Units	Measure with Centimeters	2.MD.A.1	MP1, MP5, MP6, MP8
	Centimeters and Meters		2.MD.A.2	MP1, MP5, MP6, MP7	
	Measure Length Using Different Metric Units		2.MD.A.2	MP1, MP5, MP6, MP7	
	Compare Lengths, Add or subtract with measurements and Understand Graphs	Comparing measured lengths	Compare customary lengths	2.MD.A.2	MP2, MP5, MP6
Compare metric lengths			2.MD.A.4	MP1, MP2, MP3, MP4, MP6	
Measure on a number line			2.MD.A.4	MP1, MP2, MP3, MP4, MP6	
Add or Subtract with Measurements		Add and Subtract with Measurements	2.MD.B.5, 2.MD.B.6	MP1, MP2, MP4	Measurement&Data
		Add and Subtract on a Number Line	2.MD.B.5, 2.MD.B.6	MP1, MP2, MP4	
		Find Unknown Measurements	2.MD.B.5, 2.MD.B.6	MP1, MP2, MP4	
Graphs and Data (1)		Line Plots	2.MD.D.9	MP1, MP4, MP5, MP6	Measurement&Data
		analyze line plots	2.MD.D.9	MP1, MP4, MP5, MP6	
		Bar graphs	2.MD.D.10	MP3, MP4, MP6	
Graphs and Data (2)	analyze Bar graphs	2.MD.D.10	MP1, MP2, MP6	Measurement&Data	
	Picture graphs	2.MD.D.10	MP1, MP4, MP6		
	analyze picture graphs	2.MD.D.10	MP1, MP2, MP3, MP4, MP6		
Three-Dimensional (3-D) Shapes	Three-Dimensional (3-D) Shapes	Three-Dimensional Shapes	2.G.A.1	MP2, MP3, MP4, MP6	Geometry
		Attributes of Three-Dimensional Shapes	2.G.A.1	MP1, MP4, MP5, MP6	
		Build Three-Dimensional Shapes	2.G.A.1	MP1, MP3, MP4, MP6, MP7	

Shapes and Equal Shares	Two-Dimensional (2-D) Shapes	Two-Dimensional Shapes	2.G.A.1	MP3, MP4, MP7	Geometry
		Angles in Two-Dimensional Shapes	2.G.A.1	MP1, MP4, MP6, MP7	
		Sort Two-Dimensional Shapes	2.G.A.1	MP3, MP4, MP6	
		Divide Rectangles into Equal Squares	2.G.A.2, 2.OA.C.4	MP3, MP5, MP8	
	Divide Two-Dimensional (2-D) Shapes	Partition Shapes	2.G.A.3	MP1, MP3, MP6, MP8	Geometry
		Equal Shares, Different Shapes	2.G.A.3	MP1, MP3, MP6, MP8	

Math Alive! - Allivia

Math Alive Curriculum with CCSS, Mathematical Practices

Grade 3

Module	Topic	Concept	Common Core State Standards	MATHEMATICAL PRACTICES	Domain
10					
Understand Multiplication and Find Multiplication Facts	Understand Multiplication	Multiplication as Repeated Addition	3.OA.A.1	MP1, MP4, MP7	Operations&Algebra
		Multiplication on the Number Line	3.OA.A.3	MP1, MP4, MP7	
		Arrays and Multiplication	3.OA.A.3	MP1, MP2, MP4, MP6	
	Multiply by 2, 5 and 10	Multiply by 2	3.OA.A.3	MP1, MP4, MP5, MP7	Operations&Algebra
		Multiply by 5	3.OA.A.3	MP1, MP4, MP7	
		Multiply by 10	3.OA.A.3	MP1, MP4, MP7	
	Multiply by 0, 1 and 3	Multiply by 0 and 1	3.OA.B.5	MP2, MP3, MP7, MP8	Operations&Algebra
		The Properties of Multiplication	3.OA.B.5	MP4, MP7, MP8	
		Multiply by 3	3.OA.A.3	MP1, MP4, MP6, MP7	
Use Properties to Find Multiplication Facts	Multiply by 4, 6 and 7	Multiply by 4	3.OA.A.3	MP1, MP4, MP5, MP7	Operations&Algebra
		Multiply by 6	3.OA.A.3	MP1, MP4, MP6, MP7	
		Multiply by 7	3.OA.C.7	MP2, MP7, MP8	
	Multiply by 8 and 9	Multiply by 8	3.OA.C.7	MP2, MP7, MP8	Operations&Algebra
		Multiply by 9	3.OA.C.7	MP2, MP7, MP8	
		The Associative Property	3.OA.B.5	MP1, MP4, MP7, MP8	
Understand Division and Divide	Understand Division	Use an Open Number Line to Multiply	3.NBT.A.3	MP2, MP4, MP5, MP7	Number&Operations
		Use Properties to Multiply	3.NBT.A.3	MP2, MP4, MP5, MP7	
		Multiply by Multiples of 10	3.NBT.A.3	MP4, MP5, MP7, MP8	
	Divide by 2, 5 and 10	Division as Sharing	3.OA.A.2	MP1, MP4, MP5, MP7	Operations&Algebra
		Division as Repeated Subtraction	3.OA.A.3	MP2, MP4, MP7, MP8	
		Relate Multiplication and Division	3.OA.B.6	MP2, MP4, MP7, MP8	
Fluently Multiply and Divide	Divide by 7, 8 and 9	Divide by 2	3.OA.A.3	MP4, MP5, MP6	Operations&Algebra
		Divide by 5	3.OA.A.3	MP1, MP2, MP5, MP7	
		Divide by 10	3.OA.C.7	MP1, MP2, MP5, MP8	
	Divide by 3, 4 and 6	Divide by 3	3.OA.C.7	MP1, MP4, MP5, MP6	Operations&Algebra
		Divide by 4	3.OA.C.7	MP3, MP4, MP7, MP8	
		Divide by 6	3.OA.C.7	MP2, MP4, MP5, MP6	
Find Area and Understand graphs	Find Area with Unit Squares	Divide by 7	3.OA.C.7	MP2, MP4, MP6, MP8	Operations&Algebra
		Divide by 8	3.OA.A.3	MP2, MP4, MP6, MP7	
		Divide by 9	3.OA.C.7	MP2, MP4, MP6	
	Find Area of Polygons by Multiplying	Division Involving 0 and 1	3.OA.B.5	MP1, MP2, MP4, MP7	Operations&Algebra
		Solve Multiplication and Division Equations	3.OA.A.4	MP2, MP6, MP8	
		Patterns on the Multiplication Table	3.OA.D.9	MP1, MP3, MP7	
Numbers Through Thousands and Addition	Add 3 or 4-Digit Numbers	Use a Multiplication Table	3.OA.C.7	MP2, MP3	Operations&Algebra
		Use Strategies to Multiply	3.OA.B.5	MP4, MP7, MP8	
		Multiplication and Division Facts	3.OA.B.6	MP2, MP4, MP7, MP8	
	Find Area of Squares and Rectangles	Cover Regions	3.MD.C.5b, 3.MD.C.6	MP2, MP4, MP5, MP6	Measurement&Data
		Area : Non-Standard Units	3.MD.C.5b, 3.MD.C.6	MP2, MP4, MP5, MP6	
		Area : Standard Units	3.MD.C.5b, 3.MD.C.6	MP2, MP4, MP5, MP6	
Add and Subtract Numbers Through Thousands	Read and Make Picture Graphs	Area of Squares and Rectangles	3.MD.C.7, 3.MD.C.7a	MP1, MP3, MP6, MP8	Measurement&Data
		Area and the Distributive Property	3.MD.C.7c, 3.MD.C.7d	MP1, MP3, MP4, MP6, MP7	
		Area of Irregular Shapes	3.MD.C.7c, 3.MD.C.7d	MP1, MP3, MP4, MP6, MP7	
	Read and Make Bar Graphs	Collect and Record Data	3.MD.B.3, 3.OA.D.8	MP1, MP2, MP4, MP8	Measurement&Data
		Read Picture Graphs	3.MD.B.3, 3.NBT.A.2	MP1, MP2, MP4, MP8	
		Make Picture Graphs	3.MD.B.3, 3.NBT.A.2	MP2, MP4, MP6	
Understand Fractions with Shape	Read Bar Graphs	Make Bar Graphs	3.MD.B.3, 3.NBT.A.2	MP2, MP4, MP5	Measurement&Data
		Relate Bar Graphs to Picture Graphs	3.MD.B.3, 3.NBT.A.2	MP2, MP4, MP5	
	Numbers Through Thousands	Place Value Through Thousands	3.NBT.A.3	MP1, MP3, MP4, MP5, MP6	Number&Operations
		Compare Numbers Through Thousands	3.NBT.A.2	MP2, MP4, MP7	
		Round to the Nearest Ten or Hundred	3.NBT.A.1	MP5, MP7, MP8	
Understand and Compare Fractions	Addition Properties and Patterns	Addition Properties	3.NBT.A.2	MP2, MP7, MP8	Number&Operations
		Patterns in the Addition Table	3.NBT.A.2	MP1, MP2, MP7	
		Addition Patterns	3.NBT.A.2	MP2, MP7, MP8	
	Use Mental Math and Estimation to Add 3-Digit Numbers	Add 3-Digit Numbers Mentally	3.NBT.A.2	MP2, MP7, MP8	Number&Operations
		Estimate Sums of 3-Digit Numbers	3.NBT.A.1	MP1, MP5, MP6, MP7	
		Relate Addition and Subtraction	3.NBT.A.2	MP2, MP6, MP7, MP8	
Time, Capacity and Mass	Add 3 or 4-Digit Numbers	Use Models to Add to 3-Digit Numbers	3.NBT.A.2	MP2, MP7, MP8	Number&Operations
		Add 3-Digit Numbers	3.NBT.A.2	MP2, MP7, MP8	
		Add 4-Digit Numbers	3.NBT.A.2	MP2, MP7, MP8	
	Use Mental Math and Estimation to Subtract 3-Digit Numbers	Subtract 3-Digit Numbers Mentally	3.NBT.A.2	MP2, MP7, MP8	Number&Operations
		Estimate Differences of 3-Digit Numbers	3.NBT.A.1	MP5, MP7, MP8	
		Use Models to Subtract 3-Digit Numbers	3.NBT.A.2	MP2, MP7, MP8	
Time, Capacity and Mass	Subtract 3 or 4-Digit Numbers	Subtract 3-Digit Numbers	3.NBT.A.2	MP2, MP7, MP8	Number&Operations
		Subtract 4-Digit Numbers	3.NBT.A.2	MP2, MP7, MP8	
	Understand Fractions with Shape	Divide Regions into Equal Parts	3.NF.A.1	MP2, MP4, MP5	Number&Operations
		Fractions and Regions	3.NF.A.1	MP2, MP4, MP7	
		Understand the Whole	3.NF.A.3c	MP1, MP4, MP6, MP7	
Time, Capacity and Mass	Understand Fractions with Number line	Fractions Less Than 1 using Number lines	3.NF.A.2.a, 3.NF.A.2b	MP1, MP4, MP7	Number&Operations
		Fractions Greater Than 1 using Number lines	3.NF.A.2.a, 3.NF.A.2b	MP1, MP4, MP7	
		Line Plots and Length	3.NF.A.2, 3.MD.B.4	MP1, MP4, MP5, MP6	
	Equivalent Fractions	Equivalent Fractions by Models	3.NF.A.3b	MP1, MP3, MP4, MP8	Number&Operations
		Equivalent Fractions by Number Lines	3.NF.A.3b	MP1, MP3, MP4, MP8	
		Whole Numbers and Fractions	3.NF.A.3c	MP1, MP4, MP6, MP7	
Time, Capacity and Mass	Compare Fractions	Same Denominator	3.NF.A.3d	MP2, MP3, MP5, MP8	Number&Operations
		Same Numerator	3.NF.A.3d	MP1, MP2, MP4, MP7	
		Compare Fractions using the Number Line	3.NF.A.3a	MP4, MP5, MP7	
	Understand Time(The Minute, Elapsed Time)	Time to the Minute	3.MD.A.1	MP2, MP3, MP6	Measurement&Data
		Measure Elapsed Time	3.MD.A.1	MP1, MP3, MP4, MP8	
		Use Elapsed Time	3.MD.A.1	MP1, MP3, MP4, MP8	
Time, Capacity and Mass	Solve Capacity Problems	Estimate Liquid Volume	3.MD.A.2	MP4, MP5, MP6	Measurement&Data
		Measure Liquid Volume	3.MD.A.2	MP4, MP5, MP6	
	Solve Mass Problems	Estimate Mass	3.MD.A.2	MP4, MP5, MP6, MP7	Measurement&Data

	Solve Mass Problems	Measure Mass	3.MD.A.2	MP4, MP5, MP6, MP7	Measurement&Data
Attributes of 2-D Shapes and Perimeter Problems	Attributes of Two-Dimensional (2-D) Shapes	Polygons	3.G.A.1	MP2, MP6, MP7	Geometry
		Triangles	3.G.A.1	MP4, MP5, MP7, MP8	
		Quadrilaterals	3.G.A.1	MP2, MP4, MP6	
	Shared Attributes of Quadrilaterals	Shared Attributes of Quadrilaterals	3.G.A.1	MP2, MP4, MP6	Geometry
		Classify Shapes	3.G.A.1	MP2, MP4, MP6	
		Analyze and Compare Quadrilaterals	3.G.A.1	MP2, MP4, MP6	
	Perimeter	Understand Perimeter	3.MD.D.8	MP4, MP5, MP6, MP7	Measurement&Data
		Perimeter of Common Shapes	3.MD.D.8	MP4, MP5, MP6, MP7	
		Perimeter and Unknown Side Lengths	3.MD.D.8	MP1, MP4, MP7, MP8	
	Relationships of Perimeter and Area of Shapes	Same Perimeter, Different Area	3.MD.D.8	MP1, MP3, MP4, MP7	Measurement&Data
		Same Area, Different Perimeter	3.MD.D.8	MP2, MP3, MP4	

Math Alive Curriculum with CCSS, Mathematical Practices

Grade 4



Module	Topic	Concept	Common Core State Standards	MATHEMATICAL PRACTICES	Domain
10					
Numbers Through One Million and Addition and Subtraction	Numbers Through One Million	Place Value Relationships	4.NBT.A.1	MP4, MP6, MP7	Number&Operations
		Read and Write Multi-Digit Numbers	4.NBT.A.2	MP2, MP7	
		Compare and Order Numbers	4.NBT.A.2	MP2, MP4, MP5	
	Use Strategies to Add and Subtract Whole Numbers	Round Whole Numbers	4.NBT.A.3	MP1, MP2, MP5, MP7	Number&Operations
		Find Sums and Differences of Whole Numbers	4.NBT.B.4	MP1, MP5, MP8	
		Estimate Sums and Differences of Whole Numbers	4.NBT.B.4	MP1, MP5, MP8	
	Add and Subtract Whole Numbers	Add Whole Numbers	4.NBT.B.4	MP1, MP5, MP8	Number&Operations
		Subtract Whole Numbers	4.NBT.B.4	MP1, MP5, MP8	
		Subtract Across Zeros	4.NBT.B.4	MP1, MP5, MP8	
Multiply by 1 - Digit Numbers	Understand Multiplying by 1-Digit Numbers	Multiply by Multiples of 10, 100, and 1,000	4.NBT.B.5	MP4, MP5, MP7, MP8	Number&Operations
		Round to Estimate Products	4.NBT.B.5	MP1, MP6, MP7, MP8	
		The Distributive Property	4.NBT.B.5	MP1, MP7	
	Use Strategies to Multiply by 1-Digit Numbers	Mental Math Strategies for Multiplication	4.NBT.B.5	MP1, MP7, MP8	Number&Operations
		Use Arrays and Partial Products to Multiply by 1-Digit Numbers	4.NBT.B.5	MP1, MP7	
		Use Partial Products to Multiply by 1-Digit Numbers	4.NBT.B.5	MP1, MP7	
	Multiply by 1-Digit Numbers	Multiply 2-Digit Numbers by 1-Digit Numbers	4.NBT.B.5	MP1, MP4, MP7	Number&Operations
		Multiply 3-Digit Numbers by 1-Digit Numbers	4.NBT.B.5	MP4, MP8	
		Multiply 4-Digit Numbers by 1-Digit Numbers	4.NBT.B.5	MP4, MP8	
	Understand Multiplying by 2-Digit Numbers	Multiply Multiples of 10	4.NBT.B.5	MP1, MP4, MP7	Number&Operations
		Use Models to Multiply 2-Digit Numbers by Multiples	4.NBT.B.5	MP2, MP4, MP5, MP8	
		Use Rounding	4.NBT.B.5	MP1, MP2, MP5, MP7	
Multiply by 2 - Digit Numbers and Divide by 1-Digit Numbers	Use Strategies to Multiply by 2-Digit Numbers	Use Compatible Numbers	4.NBT.B.5	MP1, MP2, MP5, MP7	Number&Operations
		Use Arrays and Partial Products to Multiply by 2-Digit Numbers	4.NBT.B.5	MP4, MP7, MP8	
		Multiply Using the Distributive Property	4.NBT.B.5	MP4, MP7, MP8	
	Multiply by 2-Digit Numbers	Use Partial Products to Multiply by 2-Digit Numbers	4.NBT.B.5	MP4, MP7, MP8	Number&Operations
		Multiply 2-Digit Numbers by Multiples of 10	4.NBT.B.5	MP1, MP4, MP7	
		Multiply 2-Digit Numbers by 2-Digit Numbers	4.NBT.B.5	MP1, MP2, MP5	
	Understand Quotients and Remainders	Find Quotients	4.NBT.B.6	MP2, MP7, MP8	Number&Operations
		Estimate Quotients	4.NBT.B.6	MP1, MP2, MP5, MP7	
		Interpret Remainders	4.NBT.B.6	MP2, MP4, MP5, MP7, MP8	
	Divide by 1-Digit Numbers	Division as Sharing	4.NBT.B.6	MP4, MP5	Number&Operations
		Use Partial Quotients to Divide	4.NBT.B.6	MP2, MP7, MP8	
		Divide with 1-Digit Numbers	4.NBT.B.6	MP2, MP7, MP8	
	Use Operations with Whole Numbers to Solve Problems	Solve Comparison Situations, Add & Multiply	4.OA.A.2	MP1, MP3, MP4, MP7	Operations&Algebra
		Solve Comparison Situations, Multiply & Divide	4.OA.A.2	MP1, MP3, MP4, MP7	
		Solve Multi-Step Problems	4.OA.A.3	MP2, MP4, MP7	
	Generate and Analyze patterns	Number Sequences	4.OA.C.5	MP1, MP4, MP5, MP7	Operations&Algebra
		Number Rules	4.OA.C.5	MP1, MP4, MP5, MP7	
		Repeating Shapes	4.OA.C.5	MP4, MP7, MP8	
	Find patterns in the table	Addition and Subtraction Rules	4.OA.C.5	MP1, MP4, MP5, MP7	Operations&Algebra
		Multiplication and Division Rules	4.OA.C.5	MP1, MP4, MP5, MP7	
Understand Multiples of Fractions, Compare Fractions	Factors and Multiples	Factors	4.OA.B.4	MP1, MP4	Operations&Algebra
		Multiples	4.OA.B.4	MP6, MP7	
		Prime and Composite Numbers	4.OA.B.4	MP4, MP6, MP7	
	Use Models and Multiplication to find Equivalent Fractions	Equivalent Fractions by Area Models	4.NF.A.1	MP2, MP4, MP7	Number&Operations
		Equivalent Fractions by Number Lines	4.NF.A.1	MP2, MP4, MP7	
		Generate Equivalent Fractions by Multiplication	4.NF.A.1	MP4, MP7, MP8	
	Use Strategies and Models to Compare Fractions	Simplest Form	4.NF.A.1	MP2, MP4, MP6	Number&Operations
		Use Benchmarks to Compare Fractions	4.NF.A.2	MP1, MP3, MP4	
		Compare Fractions	4.NF.A.2	MP2, MP4, MP6	
Add and Subtract Fractions with Like Denominators, Add and Subtract Mixed Numbers	Addition of Fractions	Model Addition of Fractions	4.NF.B.3d	MP2, MP3, MP5	Number&Operations
		Decompose Fractions	4.NF.B.3b	MP2, MP4, MP8	
		Add Fractions with Like Denominators	4.NF.B.3d	MP1, MP2, MP4	
	Subtraction of Fractions	Model Subtraction of Fractions	4.NF.B.3d	MP1, MP2, MP4, MP5	Number&Operations
		Subtract Fractions with Like Denominators	4.NF.B.3d	MP1, MP2, MP4	
		Add and Subtract Fractions with Like Denominators	4.NF.B.3d	MP1, MP2, MP4	
	Addition and Subtraction of Mixed numbers	Model Addition and Subtraction of Mixed Numbers	4.NF.B.3c	MP2, MP4, MP8	Number&Operations
		Add Mixed Numbers	4.NF.B.3c	MP2, MP4, MP8	
		Subtract Mixed Numbers	4.NF.B.3c	MP2, MP4, MP8	
Understand Multiples of Fractions, Multiply by Fractions and Understand Decimals	Multiples of Fractions	Multiples of Unit Fractions	4.NF.B.4a	MP2, MP5	Number&Operations
		Multiples of Fractions	4.NF.B.4b	MP1, MP2, MP4	
	Multiply Fractions by Whole Numbers	Multiply a Fraction by a Whole Number	4.NF.B.4b	MP1, MP2, MP4	Number&Operations
		Multiply a Whole Number and a Mixed Number	4.NF.B.4c	MP1, MP4	
	Understand Relationship between Fractions and Decimals	Relate Tenths and Decimals	4.NF.C.6	MP2, MP3, MP4	Number&Operations
		Relate Hundredths and Decimals	4.NF.C.6	MP4, MP6, MP7	
	Use Models to Compare Decimals to the	Equivalent Fractions and Decimals	4.NF.C.5	MP2, MP4, MP6, MP8	

	Use Models to Compare Decimals to the Hundredths	Use Models to Compare Decimals to the Hundredths	4.NF.C.7	MP2, MP4, MP6	Number&Operations
Analyze Line Plot and Find Equivalence in units of Measure	Analyze and Make Line Plots with Fractions	Read Line Plots with fractions	4.MD.B.4	MP4, MP5, MP7	Measurement&Data
		Make Line Plots with fractions	4.MD.B.4	MP4, MP5, MP7	
		Use Line Plots to Solve Problems with fractions	4.MD.B.4	MP4, MP5, MP7	
	Find Equivalence in Customary Units of Measure	Customary Units of Length	4.MD.A.1	MP1, MP2, MP5	Measurement&Data
		Customary Units of Capacity	4.MD.A.1	MP3, MP7, MP8	
		Customary Units of Weight	4.MD.A.1	MP1, MP6, MP7	
	Find Equivalence in Metric Units of Measure	Metric Units of Length	4.MD.A.1	MP1, MP7, MP8	Measurement&Data
		Metric Units of Capacity	4.MD.A.1	MP2, MP7	
		Metric Units of Mass	4.MD.A.1	MP2, MP7	
Time, Perimeter, Area, and Angles	Units of Time	Convert Units of Time	4.MD.A.1	MP1, MP5, MP7	Measurement&Data
		Adding Time & Subtracting Time	4.MD.A.2	MP3, MP5, MP8	
	Perimeter and Area	Measure Perimeter	4.MD.A.3	MP1, MP7, MP8	Measurement&Data
		Measure Area	4.MD.A.3	MP1, MP4, MP5	
		Find Unknown Measures	4.MD.A.3	MP2, MP4, MP7	
	Understand Angles	Lines, Rays, and Angles	4.G.A.1	MP4, MP5, MP6	Measurement&Data
		Angles and Fractional Parts of a Circle	4.MD.C.5a	MP2, MP3, MP5	
		Understand Angles and Unit Angles	4.MD.C.5a	MP1, MP2, MP5	
Lines, Angles, and Shapes	Measure Angles	Measure and Draw Angles	4.MD.C.6	MP4, MP5, MP6	Measurement&Data
		Add and Subtract Angle Measures	4.MD.C.7	MP2, MP4, MP5	
		Unknown Angle Measure	4.MD.C.7	MP1, MP4	
	Lines, Angles, and Shapes	Lines	4.G.A.1	MP4, MP5, MP6	Geometry
		Classify Triangles	4.G.A.2	MP3, MP4, MP6, MP7	
		Classify Quadrilaterals	4.G.A.2	MP2, MP4, MP6	
	Lines Symmetry	Lines of Symmetry	4.G.A.3	MP2, MP3, MP5	Geometry
		Draw Shapes with Line Symmetry	4.G.A.3	MP1, MP7, MP8	

Math Alive Curriculum with CCSS, Mathematical Practices

Grade 5

Module	Topic	Concept	Common Core State Standards	MATHEMATICAL PRACTICES	Domain
10					
Understand and Compare Decimals to Thousandths	Understand Decimals to Thousandths	Patterns with Exponents and Powers of 10	5.NBT.A.2	MP2, MP7, MP8	Number&Operations
		Understand Whole-Number Place Value	5.NBT.A.1	MP5, MP7	
		Decimals to Thousandths	5.NBT.A.1	MP4, MP5, MP7	
	Compare Decimals to the Thousandths using Place value	Understand Decimal Place Value	5.NBT.A.3a	MP2, MP7	Number&Operations
		Compare Decimals to the Thousandths using Place value	5.NBT.A.3b	MP2, MP6	
		Order Decimals	5.NBT.A.3b	MP2, MP6	
Add and Subtract Decimals and Multiply Decimals and Whole Numbers	Use Strategies and Models to Add and Subtract Decimals	Round Decimals	5.NBT.A.4	MP3, MP6, MP8	Number&Operations
		Estimate Sums and Differences of Decimals	5.NBT.B.7	MP2, MP5, MP6	
		Use Models to Add and Subtract Decimals	5.NBT.B.7	MP2, MP5, MP6, MP8	
	Add and Subtract Decimals	Add Decimals	5.NBT.B.7	MP1, MP2, MP8	Number&Operations
		Use Addition Properties to Add Decimals	5.NBT.B.7	MP1, MP2, MP5	
		Subtract Decimals	5.NBT.B.7	MP1, MP2, MP6	
Multiply Decimals and Divide 2-Digit Divisors	Multiply Multi-Digit Whole Numbers	Multiply Greater Numbers by Powers of 10	5.NBT.A.2	MP3, MP8	Number&Operations
		Estimate Products	5.NBT.B.5	MP1, MP4, MP6	
		Multiply 3-Digit by 2-Digit Numbers	5.NBT.B.5	MP1, MP4, MP6	
	Understand Multiplying Decimals and Whole Numbers	Multiply Decimals by Powers of 10	5.NBT.A.2	MP4, MP7, MP8	Number&Operations
		Estimate the Product of a Decimal and a Whole Number	5.NBT.B.7	MP1, MP4, MP5	
		Use Models to Multiply a Decimal and a Whole Number	5.NBT.B.7	MP1, MP4, MP5	
Divide Whole Numbers	Use Strategies to Multiply Decimals	Multiply a Decimal by a Whole Number	5.NBT.B.7	MP5, MP7	Number&Operations
		Use Models to Multiply a Decimal and a Decimal	5.NBT.B.7	MP1, MP5, MP6	
		Multiply Decimals Using Partial Products	5.NBT.B.7	MP1, MP5, MP6	
	Multiply Decimals	Use Properties to Multiply Decimals	5.NBT.B.7	MP1, MP5, MP6	Number&Operations
		Multiply Decimals	5.NBT.B.7	MP2, MP6	
		Use Patterns to Divide	5.NBT.B.6	MP1, MP2, MP3	
Divide Decimals and Understand the Coordinate System	Understand Dividing Whole Numbers	Estimate Quotients with 2-Digit Divisors	5.NBT.B.6	MP1, MP2, MP3	Number&Operations
		Use Models to Divide with 2-Digit Divisors	5.NBT.B.6	MP3, MP4, MP6	
		Use Partial Quotients to Divide	5.NBT.B.6	MP1, MP3, MP8	
	Divide Whole Numbers	Divide by Multiples of 10	5.NBT.B.6	MP1, MP2, MP3	Number&Operations
		Use Estimation to Place the First Digit of the Quotient	5.NBT.B.6	MP1, MP4, MP6	
		Divide by 2-Digit Divisors	5.NBT.B.6	MP1, MP2, MP8	
Divide Decimals and Understand the Coordinate System	Divide Decimals	Divide Greater Numbers	5.NBT.B.6	MP1, MP2, MP8	Number&Operations
		Patterns for Dividing with Decimals	5.NBT.A.2	MP5, MP6, MP7	
		Estimate Decimal Quotients	5.NBT.B.7	MP1, MP2	
	Divide Decimals by Decimals	Use Models to Divide by a 1-Digit Whole Number	5.NBT.B.7	MP3, MP5	Number&Operations
		Divide by a 1-Digit Whole Number	5.NBT.B.7	MP2, MP7	
		Divide by a 2-Digit Whole Number	5.NBT.B.7	MP2, MP5, MP6	
Analyze Patterns and Graph & Add and Subtract Fractions with Unlike Denominators	Graph Points on the Coordinate Plane	Use Models to Divide Decimals	5.NBT.B.7	MP2, MP5, MP6	Number&Operations
		Divide by a Decimal	5.NBT.B.7	MP2, MP5, MP6	
		Write Zeros in the Dividend	5.NBT.B.7	MP1, MP6	
	Analyze Numerical Patterns and Graph	The Coordinate System	5.G.A.1	MP4, MP5	Geometry
		Graph Data Using Ordered Pairs	5.G.A.2	MP4, MP5, MP8	
		Solve Problems Using Ordered Pairs	5.G.A.2	MP4, MP5, MP7	
Add and Subtract Mixed Fractions with Unlike Denominators and Multiply Fractions and Whole Numbers	Find Common Denominators to Add Fractions with Unlike Denominators	Numerical Patterns	5.OA.B.3	MP7, MP8	Operations&Algebra
		More Numerical Patterns	5.OA.B.3	MP1, MP4, MP7	
		Analyze and Graph Relationships	5.OA.B.3	MP2, MP4, MP7	
	Add and Subtract Fractions with Unlike Denominators	Estimate Sums and Differences of Fractions	5.NF.A.1	MP1, MP7	Number&Operations
		Find Common Denominators	5.NF.A.1	MP1, MP2	
		Use Models to Add Unlike Fractions	5.NF.A.1, 5.NF.A.2	MP5, MP6, MP7	
Multiply Two Fractions	Add Mixed Fractions with Unlike Denominators	Add Unlike Fractions	5.NF.A.1	MP5, MP6, MP7	Number&Operations
		Use Models to Subtract Unlike Fractions	5.NF.A.2	MP1, MP5, MP8	
		Subtract Unlike Fractions	5.NF.A.2	MP1, MP5, MP8	
	Subtract Mixed Fractions with Unlike Denominators	Estimate Sums and Differences of Mixed Numbers	5.NF.A.2	MP1, MP7	Number&Operations
		Use Models to Add Mixed Numbers	5.NF.A.1	MP1, MP2, MP6	
		Add Mixed Numbers	5.NF.A.1	MP1, MP2, MP6	
Convert Units, Classify	Multiply Fractions and Whole Numbers	Use Models to Subtract Mixed Numbers	5.NF.A.1	MP1, MP2, MP6	Number&Operations
		Subtract Mixed Numbers	5.NF.A.1	MP1, MP2, MP6	
		Estimate Products of Fractions	5.NF.B.4a, 5.NF.B.4b	MP3, MP5, MP6	
	Multiply a Two Fractions	Use Models to Multiply Fractions and Whole Numbers	5.NF.B.4a	MP2, MP5, MP6	Number&Operations
		Multiply Fractions and Whole Numbers	5.NF.B.4a	MP2, MP5, MP6	
		Use Models to Multiply a Two Fractions	5.NF.B.4a, 5.NF.B.5b	MP5, MP7, MP8	
Divide Whole Numbers or Unit Fractions, Analyze Line Plots and Write Numerical Expressions	Multiply Mixed Numbers	Multiply Two Fractions	5.NF.B.4a	MP5, MP7, MP8	Number&Operations
		Use Models to Multiply Mixed numbers	5.NF.B.4b	MP2, MP4, MP5, MP6	
		Multiply Mixed Numbers	5.NF.B.6	MP1, MP2, MP4	
	Understand Fractions as Division	Multiplication as Scaling	5.NF.B.5a	MP5, MP6	Number&Operations
		Fractions and Division	5.NF.B.3	MP2, MP5, MP6, MP7	
		Fractions and Mixed Numbers as Quotients	5.NF.B.3	MP2, MP5, MP6, MP7	
Convert Units, Classify	Divide Whole Numbers or Unit Fractions	Use Multiplication to Divide	5.NF.B.7a, 5.NF.B.7b	MP3, MP5	Number&Operations
		Divide Whole Numbers by Unit Fractions	5.NF.B.7c	MP3, MP5	
		Divide Unit Fractions by Non-Zero Whole Numbers	5.NF.B.7c	MP3, MP5	
	Analyze and Make Line Plots with Fractions and Decimals	Analyze Line Plots with fractions and decimals	5.MD.B.2	MP2, MP4, MP7	Measurement&Data
		Make Line Plots with fractions and decimals	5.MD.B.2	MP2, MP4, MP7	
		Use Line Plots to Solve Problems with fractions and decimals	5.MD.B.2	MP2, MP4, MP7	
Convert Units, Classify	Numerical Expressions	Order of Operations	5.OA.A.1	MP2, MP3, MP4	Operations&Algebra
		Evaluate Expressions	5.OA.A.1	MP2, MP4	
		Numerical Expressions	5.OA.A.1	MP2, MP3, MP4	
	Convert Customary Units	Convert Customary Units of Length	5.MD.A.1	MP5, MP7	Measurement&Data
		Convert Customary Units of Capacity	5.MD.A.1	MP5, MP6	
		Convert Customary Units of Weight	5.MD.A.1	MP1, MP6	
Convert Units, Classify	Convert Metric Units	Convert Metric Units of Length	5.MD.A.1	MP2, MP6, MP8	Measurement&Data
		Convert Metric Units of Capacity	5.MD.A.1	MP2, MP6, MP8	

2-D Figures and Understand Volume Concepts		Convert Metric Units of Mass	5.MD.A.1	MP2, MP6, MP8	
	Classify Two-Dimensional (2-D) Figures	Classify Triangles	5.G.B.3, 5.G.B.4	MP1, MP4, MP6, MP7	Geometry
		Classify Quadrilaterals by their properties	5.G.B.3, 5.G.B.4	MP1, MP7, MP8	
		Classify Quadrilaterals using an hierarchy	5.G.B.3, 5.G.B.4	MP1, MP7, MP8	
	Volume of Prisms	Model Volume	5.MD.C.3a	MP1, MP5, MP6	Measurement&Data
		Volume of Prisms	5.MD.C.5a, 5.MD.C.5b	MP1, MP7, MP8	
		Find Volume of Composd Figures	5.MD.C.5c	MP3, MP5	

Math Alive! - Allivia