	CCSS	NCTM Alignment Principles to	Key Math	Vocabulary
Division	Alignment	Practice	practices	words
		 Understand numbers, ways of representing numbers, 		
		relationship among		
		numbers and number		
		systems.		
		 Understand situations that 		
		entail multiplication and		
		division, such as equal		
		groupings of objects and sharing equally.		
		Sharing equally.		
Lesson 1	3.0A.A.1			
Central Focus:	3.OA.A.2	Understand meanings of		5
Division Facts	3.OA.A.3 4.OA.B.4	operations and how they relate to one another.	MP1, MP4, MP3	Division, quotient, groups
	4.0A.B.4	Understand numbers, ways	IVIFS	quotient, groups
		of representing numbers,		
		relationship among		
		numbers and number		
		systems.		
Lesson 2	3.OA.A.1	 Understand meanings of 		
Central Focus:	3.OA.B.5	operations and how they	MP 1, MP4,	Factors, act
Factors	4.OA.B.4	relate to one another.	MP3	families
		 Understand meanings of 		
		operations and how they		
		relate to one another.		
		 Understand situations that 		
1		entail multiplication and		
Lesson 3 Central Focus:		division, such as equal groupings of objects and		
Defining what it	3.OA.A.2	sharing equally.		Dividend, divisor,
means to divide	3.OA.B.6	- , ,	MP4, MP3	quotient
	204:3	Understand meanings of		
Lesson 4	3.OA.A.2 3.OA.A.4	operations and how they relate to one another.		
Central Focus:	3.OA.A.4 3.OA.B.5	relate to offe another.		
Equal	3.OA.B.6	 Apply and adapt a variety 	MP1, MP2,	
Share/Partitive	4.NBT.B.5	of appropriate strategies to	MP4, MP5,	Partitive division,
Division	4.NBT.B.6	solve problems	MP7, MP8	equal shares

		 Understand situations that entail multiplication and division, such as equal groupings of objects and sharing equally. 		
Lesson 5 Central Focus: Repeated subtraction or Quotitive Division	3.OA.A.2 3.OA.A.4 3.OA.B.5 3.OA.B.6	Apply and adapt a variety of appropriate strategies to solve problems	MP 1, MP8, MP 3	
Lesson 6 Central Focus: Two-digit Division	3.OA.A.2 3.OA.A.4 3.OA.B.6 4.NBT.B.5 4.NBT.B.6	 Apply and adapt a variety of appropriate strategies to solve problems 	MP4, MP5, MP3	Remainder
Lesson 7 Central Focus: Division of larger numbers	3.0A.A.1 3.0A.A.2 3.0A.A.3 4.0A.B.4 4.NBT.B.5 4.NBT.B.6 4.NBT.A.1	 Apply and adapt a variety of appropriate strategies to solve problems. 	MP4, MP5, MP3	Place value Remainder
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Multiplication	CCSS Alignment	NCTM alignment	Key Math Practices	Vocabulary
Lesson 1 Central focus: Factors	3.OA.A.1 3.OA.B.5 4.OA.B.4 4.OA.A.1	 Understand various meanings of multiplication and division 	MP 1 MP 4 MP 5 MP 7	Factors
Lesson 2 Central focus: Set models	3.OA.A.1 3.OA.A.4 3.OA.B.5 3.OA.C.7 4.OA.A.1	 Understand the effects of multiplying and dividing whole numbers Understand various meanings of multiplication and division 	MP4 MP8 MP7 MP3	Set, group, multiplicand, multiplier, product, factors
Lesson 3 Central focus: Fact Families	3.OA.A.1 3.OA.B.5 4.OA.B.4 4.OA.A.1	Identify and use relationships between operations, such as division as the inverse of multiplication, to solve	MP1, MP 4 MP 5	Multiplier Multiplicand

		problems;		
Lesson 4 Central focus: Sets and facts	3.OA.A.1 3.OA.A.4 3.OA.B.5 3.OA.C.7	Identify and use relationships between operations, such as division as the inverse of multiplication, to solve problems	MP4 MP7 MP8 MP5	Multiplicand, multiplier, Frame of reference
Lesson 5 Central focus: Multiplication using place value	3.NBT.A.3	Apply and adapt a variety of appropriate strategies to solve problems	MP4 MP7 MP 6 MP5	Multiplier Multiplicand Place value Combining like terms/bundling
Lesson 6 Central focus: Array/Area models	3.OA.A.3 3.OA.A.1 3.OA.B.5 4.OA.B.4 4.OA.A.1	 Identify and use relationships between operations, such as division as the inverse of multiplication, to solve problems; 	MP4 MP6 MP7 MP5 MP3	Array
Lesson 7 Central focus: place value/area models	3.OA.A.1 3.OA.B.5 4.OA.B.4 4.OA.A.1	Identify and use relationships between operations, such as division as the inverse of multiplication, to solve problems	MP4 MP 3 MP7 MP5	Multiplier Multiplicand
Lesson 8 Central focus: Two digit x one digit multiplication	4.NBT.B.5	 Apply and adapt a variety of appropriate strategies to solve problems Identify and use relationships between operations, such as division as the inverse of multiplication, to solve problems 	MP4 MP5 MP6 MP3 MP8	Multiplier, Multiplicand
Lesson 9 Central focus: Multiplication of larger numbers	4.NBT.B.5	 Apply and adapt a variety of appropriate strategies to solve problems Identify and use relationships between operations, such as division as the inverse of multiplication, to solve 	MP4 MP3 MP5 MP6 MP8	Multiplier, Multiplicand

		problems		
Lesson 10	4.NBT.B.5	Apply and adapt a variety	MP4	Multiplier,
Central focus:		of appropriate strategies to	MP3	Multiplicand
two digit by two		solve problems	MP5	
digit		 Identify and use 	MP6	
multiplication		relationships between		
'		operations, such as division		
		as the inverse of		
		multiplication, to solve		
		problems		
Basic Fractions	CCSS	NCTM alignment	Key Math	Vocabulary
	Alignment		Practice	,
Lesson 1	3.NF.A.1	Understand numbers, ways of	MP1	Numerator,
Central focus		representing numbers,	MP4	denominator,
What is a		relationships among numbers and	MP5	whole
fraction?		number systems	MP3	
Lesson 2	3.NF.A.1	Understand numbers, ways of	MP4	Different wholes
Central focus:		representing numbers,	MP7	Benchmark
Benchmark		relationships among numbers and	MP5	fraction
fractions;		number systems	1411 3	Traction
decomposing a		number systems		
fraction into				
parts Lesson 3	4.NF.B.3	Understand meanings for	MP4	Sum
Central focus:	4.NF.B.3.B	operations and how they relate to	MP6	Addend
	4.INF.D.3.D	one another.	MP5	Numerator
Adding with like denominators		one another.	IVIPS	Denominator
denominators		Compute fluently		
		Compute fluently		Like-
1 4	4.NF.B.3	Hadaataadaaaaisaa faa	1404	denominator
Lesson 4		Understand meanings for	MP4	Difference
Central focus:	4.NF.B.3.B	operations and how they relate to	MP6	Minuend
Subtracting with		one another.	MP5	Subtrahend
like			MP3	Denominator
denominators		Compute fluently		Numerator
				Like-
				denominators
Lesson 5	3.NF.A.3.A	Understand meanings for	MP4	Factors
Central focus:		operations and how they relate to	MP7	
Finding factors		one another.	MP8	
			MP5	
		Use mathematical models to		
		represent and understand		
		quantitative relationships.		
Lesson 6	3.NF.A.3.A	Use mathematical models to	MP4	Equivalent
Central focus:	4.NF.A.1	represent and understand	MP2	fractions

equivalent		quantitative relationships.	MP6	
fractions		·	MP5	Factors
		Understand meanings for		
		operations and how they relate to		
		one another.		
Lesson 7	4.NF.A.1	Use mathematical models to	MP4	Equivalent
Central focus:	4.NF.A.2	represent and understand	MP2	fractions
comparison of		quantitative relationships	MP6	Less than
fractions			MP5	Greater than
				Comparing
				Ordering
				Factors
Lesson 8	4.NF.A.2	Understand meanings for	MP4	Unlike
This is primarily	4.NF.B.3.B	operations and how they relate to	MP6	denominator
grade 5		one another.	MP5	
Central focus:			MP3	Sum
adding with		Compute fluently		Addend
unlike				Equivalent
denominators				fraction
Lesson 9	4.NF.A.2	Understand meanings for	MP4	Difference
This is primarily	4.NF.B.3.B	operations and how they relate to	MP6	Minuend
grade 5		one another.	MP5	Subtrahend
Central focus:			MP3	Unlike-
Subtracting with		Compute fluently		denominator
unlike				
denominators				
Lesson 10	4.NF.A.2	Understand meanings for	MP4	Mixed numbers
This primarily	4.NF.B.3.B	operations and how they relate to	MP5	
grades 5/6		one another.	MP3	
Central focus:				
What is a mixed		Compute fluently		
number?				
Lesson 11	4.NF.A.2	Understand meanings for	MP4	Different wholes
This is primarily	4.NF.B.3.B	operations and how they relate to	MP5	Sum
grades 5/6		one another.	MP3	Addend
Central focus:				Difference
Adding &		Compute fluently		Subtrahend
subtracting				Minuend
Mixed Numbers				Mixed
				number/mixed
				fraction