

Knowre Math: **Grade 1** Curriculum

Chapter 1 Numbers to 20

Lesson	Topic	MGSE
1-1 Counting 0 to 4	A) Counting and Showing Zero to Four Objects	MGSE1.NBT.1
1-2 Reading and Writing 0 to 4	A) Reading and Writing the Numbers Zero to Four	MGSE1.NBT.1
1-3 Counting 5 to 9	A) Counting and Showing Five to Nine Objects	MGSE1.NBT.1
1-4 Reading and Writing 5 to 9	A) Reading and Writing the Numbers Five to Nine	MGSE1.NBT.1
1-5 Counting 10 to 14	A) Counting and Showing Ten to Fourteen Objects	MGSE1.NBT.1
1-6 Reading and Writing 10 to 14	A) Reading and Writing the Numbers Ten to Fourteen	MGSE1.NBT.1
1-7 Counting 15 to 20	A) Counting and Showing Fifteen to Twenty Objects	MGSE1.NBT.1
1-8 Reading and Writing 15 to 20	A) Reading and Writing the Numbers Fifteen to Twenty	MGSE1.NBT.1
1-9 Number Lines	A) Points on Number Lines	MGSE1.NBT.1
	B) Distance Between Points on a Number Line	
1-10 Moving Points on Number Lines	A) Moving Points to the Right and Left on a Number Line	MGSE1.NBT.1

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Chapter 2 Addition to 20

Lesson	Topic	MGSE
2-1 Addition with Pictures	A) Using Pictures to Add One-Digit Numbers	MGSE1.OA.1, MGSE1.OA.5, MGSE1.OA.6.a, MGSE1.OA.6.b
2-2 Counting On with Pictures	A) Counting On with Pictures to Add One-Digit Numbers	MGSE1.OA.1, MGSE1.OA.5, MGSE1.OA.6.a, MGSE1.OA.6.b
2-3 Addition with Number Lines	A) Using Number Lines to Add One-Digit Numbers	MGSE1.OA.1, MGSE1.OA.5, MGSE1.OA.6.a, MGSE1.OA.6.b
2-4 Counting On with Number Lines	A) Counting On with Number Lines to Add One-Digit Numbers	MGSE1.OA.1, MGSE1.OA.5, MGSE1.OA.6.a, MGSE1.OA.6.b
2-5 Using Addition to Make 10	A) Making Ten	MGSE1.OA.1, MGSE1.OA.5, MGSE1.OA.6.a, MGSE1.OA.6.b
	B) Writing Equal Addition Expressions by Making Ten	
2-6 Adding by Making 10	A) Adding One-Digit Numbers by Making Ten	MGSE1.OA.1, MGSE1.OA.5, MGSE1.OA.6.a, MGSE1.OA.6.b
2-7 Doubles	A) Adding Doubles	MGSE1.OA.1, MGSE1.OA.6.a, MGSE1.OA.6.b
	B) Using Doubles to Add Doubles Plus One or Two	
2-8 Addition Facts – 0 to 4	A) Adding a One-Digit Number to 0 to 4	MGSE1.OA.1, MGSE1.OA.6.a, MGSE1.OA.6.b
	B) Adding Ten and a One-Digit Number 0 to 4	
2-9 Addition Facts – 5 to 9	A) Adding a One-Digit Number to 5 to 9	MGSE1.OA.1, MGSE1.OA.6.a, MGSE1.OA.6.b
	B) Adding Ten and a One-Digit Number 5 to 9	
2-10 Adding Three One-Digit Numbers	A) Adding Three or More One-Digit Numbers	MGSE1.OA.2, MGSE1.OA.3, MGSE1.OA.6.a, MGSE1.OA.6.b

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Chapter 3 Subtracting from 20 or Less

Lesson	Topic	MGSE
3-1 Subtraction with Pictures	A) Using Pictures to Subtract One-Digit Numbers	MGSE1.OA.1, MGSE1.OA.5, MGSE1.OA.6.a, MGSE1.OA.6.b
3-2 Counting Back with Pictures	A) Counting Back with Pictures to Subtract One-Digit Numbers	MGSE1.OA.1, MGSE1.OA.5, MGSE1.OA.6.a, MGSE1.OA.6.b
3-3 Counting Back on Number Lines	A) Counting Back with Number Lines to Subtract One-Digit Numbers	MGSE1.OA.1, MGSE1.OA.5, MGSE1.OA.6.a, MGSE1.OA.6.b
3-4 Counting Up on Number Lines	A) Counting Up with Number Lines to Subtract One-Digit Numbers	MGSE1.OA.1, MGSE1.OA.5, MGSE1.OA.6.a, MGSE1.OA.6.b
3-5 Using Subtraction to Make 10	A) Differences of Ten	MGSE1.OA.1, MGSE1.OA.5, MGSE1.OA.6.a, MGSE1.OA.6.b
	B) Writing Equal Subtraction Expressions by Making Ten	
3-6 Subtracting by Making 10	A) Subtracting One-Digit Numbers by Making Ten	MGSE1.OA.1, MGSE1.OA.5, MGSE1.OA.6.a, MGSE1.OA.6.b
3-7 Subtraction Facts – Differences 0 to 4	A) Differences 0 to 4 When Subtracting One-Digit Numbers	MGSE1.OA.1, MGSE1.OA.6.a, MGSE1.OA.6.b
3-8 Subtraction Facts – Differences 5 to 9	A) Differences 5 to 9 When Subtracting One-Digit Numbers	MGSE1.OA.1, MGSE1.OA.6.a, MGSE1.OA.6.b

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Chapter 4 Addition and Subtraction Relationships

Lesson	Topic	MGSE
4-1 Understanding the Equal Sign	A) The Meaning of the Equal Sign	MGSE1.OA.7
	B) True Equations	
4-2 Reversing the Left and Right Sides of Number Sentences	A) Addition and Subtraction Sentences with the Answer on the Left	MGSE1.OA.3
4-3 Order Property	A) Commutative Property of Addition	MGSE1.OA.3
4-4 Zero in Addition and Subtraction Sentences	A) Identity Property of Addition	MGSE1.OA.3
	B) Finding Missing Numbers When Subtracting Zero	
	C) Differences of Zero	
4-5 Addition Expressions	A) Parts of Addition Sentences	MGSE1.OA.1
	B) Reading and Writing Addition Expressions	
	C) Writing Addition Sentences	
4-6 Subtraction Expressions	A) Parts of Subtraction Sentences	MGSE1.OA.1
	B) Reading and Writing Subtraction Expressions	
	C) Writing Subtraction Sentences	
	D) Addition and Subtraction Expressions	
4-7 Number Bonds	A) Parts of Number Bonds	MGSE1.OA.4, MGSE1.OA.6.a, MGSE1.OA.6.b
	B) Number Bonds and Addition and Subtraction Sentences	
4-8 Related Addition and Subtraction Sentences	A) Using Addition Sentences to Write Related Subtraction Sentences	MGSE1.OA.4, MGSE1.OA.6.a, MGSE1.OA.6.b
	B) Using Subtraction Sentences to Write Related Addition Sentences	
4-9 Unknowns in Addition Equations	A) Pictures to Find Missing Numbers in Addition Sentences	MGSE1.OA.1, MGSE1.OA.4, MGSE1.OA.8
	B) Number Bonds to Find Missing Numbers in Addition Sentences	
	C) Finding Missing Numbers in Addition Sentences	
4-10 Unknowns in Subtraction Equations	A) Pictures to Find Missing Numbers in Subtraction Sentences	MGSE1.OA.1, MGSE1.OA.4, MGSE1.OA.8
	B) Number Bonds to Find Missing Numbers in Subtraction Sentences	
	C) Finding Missing Numbers in Subtraction Sentences	

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Chapter 5 Shapes

Lesson	Topic	MGSE
5-1 Attributes of 2-D Shapes	A) Closed Figures	MGSE1.G.1
	B) Sides of 2-D Shapes	
	C) Vertices of 2-D Shapes	
5-2 Identifying 2-D Shapes	A) Counting Vertices and Sides in 2-D Shapes	MGSE1.G.1
	B) Identifying 2-D Figures	
5-3 Composite Figures	A) Identifying Similar 2-D Figures	MGSE1.G.1, MGSE1.G.2
	B) Composite 2-D Figures	
5-4 3-D Shapes	A) Identifying 3-D Solids	MGSE1.G.1, MGSE1.G.2
	B) Composite 3-D Figures	
5-5 Identifying Equal Parts	A) Identifying Equal Parts in a Figure	MGSE1.G.3
5-6 Naming Equal Parts	A) Naming Equal Parts of a Fractional Figure	MGSE1.G.3
	B) Equal Parts in a Whole	

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Chapter 6 Models of Numbers to 20

Lesson	Topic	MGSE
6-1 Models of Numbers to 20	A) Modeling Numbers to 20 with Ones	MGSE1.NBT.1, MGSE1.NBT.2.a, MGSE1.NBT.2.b
	B) Regrouping Ones	
	C) Models of Numbers to 20 with Tens and Ones	
6-2 Models of Numbers Less Than 100	A) Modeling and Writing Numbers Less Than 100 with Tens and Ones	MGSE1.NBT.1, MGSE1.NBT.2.c
6-3 Modeling Place Value	A) Using Base Ten Blocks to Model Numbers Less Than 100	MGSE1.NBT.1, MGSE1.NBT.2.c
6-4 Place Values of Numbers Less Than 100	A) Place Values of Numbers Less than 100	MGSE1.NBT.1, MGSE1.NBT.2.c
6-5 Comparing Numbers Less Than 100 with Models	A) Inequality and Equality Symbols and Phrases	MGSE1.NBT.3
	B) Base Ten Blocks to Compare Numbers	
	C) Number Lines to Compare Numbers	
6-6 Comparing Numbers Less Than 100	A) Place Values to Compare Numbers	MGSE1.NBT.3
	B) Comparing Numbers	
6-7 Ordering Numbers Less Than 100	A) Comparing Groups of Objects	MGSE1.NBT.3
	B) Ordering Groups of Objects	
	C) Number Lines to Compare Numbers	
	D) Ordering Numbers	

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Chapter 7 Numbers to 120

Lesson	Topic	MGSE
7-1 Counting by Ones to 100	A) Counting Forward and Backward by Ones to 100	MGSE1.NBT.1
7-2 Counting by Tens to 100	A) Counting Forward and Backward by Tens to 100	MGSE1.NBT.1
7-3 Counting to 120	A) Counting Forward and Backward by Ones to 120	MGSE1.NBT.1
	B) Counting Forward by Tens to 120	
7-4 Reading and Writing Numbers to 120	A) Reading and Writing Multiples of Ten	MGSE1.NBT.1
	B) Reading and Writing Two-Digit Numbers Greater Than Twenty	
	C) Reading and Writing Numbers Between 100 and 120	
7-5 Ordinal Numbers	A) Ordinal Position of Objects - First Through Tenth	
7-6 Repeating Patterns	A) Repeating Patterns	
7-7 Matching and Growing Patterns	A) Matching Patterns	
	B) Growing Patterns	

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Chapter 8 Two-Digit Addition and Subtraction

Lesson	Topic	MGSE
8-1 Add Two Multiples of Ten with Models	A) Base Ten Blocks to Add Multiples of Ten with Sums Less Than 100	MGSE1.NBT.4
	B) Place Value to Add Multiples of Ten with Sums Less Than 100	
8-2 Add a Multiple of Ten with Models	A) Base Ten Blocks to Add a Two-Digit Number and a Multiple of Ten	MGSE1.NBT.4
	B) Place Value to Add a Two-Digit Number and a Multiple of Ten	
8-3 Counting by Ten to Add	A) Hundreds Charts to Add Multiples of Ten with Sums Less Than 100	MGSE1.NBT.4, MGSE1.NBT.5
	B) Hundreds Charts to Add a Two-Digit Number and a Multiple of Ten	
8-4 Add One-Digit and Two-Digit Numbers – No Regrouping	A) Base Ten Blocks to Add One-Digit and Two-Digit Numbers without Regrouping	MGSE1.NBT.4
	B) Place Value to Add One-Digit and Two-Digit Numbers without Regrouping	
8-5 Add Two-Digit Numbers – No Regrouping	A) Base Ten Blocks to Add Two-Digit Numbers without Regrouping	MGSE1.NBT.4
	B) Place Value to Add Two-Digit Numbers without Regrouping	
8-6 Add One-Digit and Two-Digit Numbers – Regrouping	A) Base Ten Blocks to Add One-Digit and Two-Digit Numbers with Regrouping	MGSE1.NBT.4
	B) Place Value to Add One-Digit and Two-Digit Numbers with Regrouping	
8-7 Add Two-Digit Numbers – Regrouping	A) Base Ten Blocks to Add Two-Digit Numbers with Regrouping	MGSE1.NBT.4
	B) Place Value to Add Two-Digit Numbers with Regrouping	
8-8 Subtract Two Multiples of Ten with Models	A) Base Ten Blocks to Subtract Multiples of Ten Less Than 100	MGSE1.OA.8, MGSE1.NBT.6
	B) Place Value to Subtract Multiples of Ten Less Than 100	
8-9 Subtract a Multiple of Ten with Models	A) Base Ten Blocks to Subtract a Multiple of Ten Less Than 100	MGSE1.NBT.6
	B) Place Value to Subtract a Multiple of Ten Less Than 100	

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Chapter 8 Two-Digit Addition and Subtraction (cont.)

Lesson	Topic	MGSE
8-10 Subtract a Multiple of Ten by Counting by Ten	A) Hundreds Charts to Subtract Multiples of Ten Less Than 100	MGSE1.NBT.5, MGSE1.NBT.6
	B) Hundreds Charts to Subtract a Two-Digit Number and a Multiple of Ten Less than 100	

Chapter 9 Measurement and Data

Lesson	Topic	MGSE
9-1 Comparing Lengths	A) Comparing the Lengths of Objects	MGSE1.MD.1
	B) Ordering Objects by Length	
	C) Using Another Object to Compare the Lengths of Two Objects	
9-2 Measuring Length with Nonstandard Units	A) Nonstandard Units to Measure Length	MGSE1.MD.2
9-3 Completing Frequency Tables	A) Making Frequency Tables	MGSE1.MD.4
9-4 Reading Frequency Tables	A) Reading Frequency Tables	MGSE1.MD.4
9-5 Making Pictographs	A) Making Pictographs	MGSE1.MD.4
9-6 Reading Pictographs	A) Reading Pictographs	MGSE1.MD.4

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Chapter 10 Time and Money

Lesson	Topic	MGSE
10-1 Calendars	A) Months	
	B) Days of the Week	
10-2 Time on Digital Clocks	A) Hours and Minutes on Digital Clocks	
	B) Reading and Writing Time to the Whole and Half Hour	MGSE1.MD.3
10-3 Hours and Minutes on a Clock	A) Understanding the Hour Hand	
	B) Understanding the Minute Hand	MGSE1.MD.3
10-4 Telling Time on an Analog Clock	A) Reading Time to the Hour and Half Hour on an Analog Clock	MGSE1.MD.3
10-5 Time on Analog Clocks	A) Showing Time to the Hour and Half Hour on an Analog Clock	MGSE1.MD.3
10-6 Coins	A) Values of Coins	
	B) Identifying Coins from Images and Values	MGSE1.NBT.7