

Knowre Math: **Grade 1** Curriculum

Chapter 1 Numbers to 20

| Lesson | Topic | CCSS |
|------------------------------------|---|---------|
| 1-1 Counting 0 to 4 | A) Counting and Showing Zero to Four Objects | 1.NBT.1 |
| 1-2 Reading and Writing 0 to 4 | A) Reading and Writing the Numbers Zero to Four | 1.NBT.1 |
| 1-3 Counting 5 to 9 | A) Counting and Showing Five to Nine Objects | 1.NBT.1 |
| 1-4 Reading and Writing 5 to 9 | A) Reading and Writing the Numbers Five to Nine | 1.NBT.1 |
| 1-5 Counting 10 to 14 | A) Counting and Showing Ten to Fourteen Objects | 1.NBT.1 |
| 1-6 Reading and Writing 10 to 14 | A) Reading and Writing the Numbers Ten to Fourteen | 1.NBT.1 |
| 1-7 Counting 15 to 20 | A) Counting and Showing Fifteen to Twenty Objects | 1.NBT.1 |
| 1-8 Reading and Writing 15 to 20 | A) Reading and Writing the Numbers Fifteen to Twenty | 1.NBT.1 |
| 1-9 Number Lines | A) Points on Number Lines | 1.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 | 1.NBT.1 |

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Chapter 2 Addition to 20

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

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Chapter 3 Subtracting from 20 or Less

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

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Chapter 4 Addition and Subtraction Relationships

| Lesson | Topic | CCSS |
|--|--|------------------------|
| 4-1 Understanding the Equal Sign | A) The Meaning of the Equal Sign | 1.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 | 1.OA.3 |
| 4-3 Order Property | A) Commutative Property of Addition | 1.OA.3 |
| 4-4 Zero in Addition and Subtraction Sentences | A) Identity Property of Addition | 1.OA.3 |
| | B) Finding Missing Numbers When Subtracting Zero | |
| | C) Differences of Zero | |
| 4-5 Addition Expressions | A) Parts of Addition Sentences | 1.OA.1 |
| | B) Reading and Writing Addition Expressions | |
| | C) Writing Addition Sentences | |
| 4-6 Subtraction Expressions | A) Parts of Subtraction Sentences | 1.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 | 1.OA.4, 1.OA.6 |
| | B) Number Bonds and Addition and Subtraction Sentences | |
| 4-8 Related Addition and Subtraction Sentences | A) Using Addition Sentences to Write Related Subtraction Sentences | 1.OA.4, 1.OA.6 |
| | B) Using Subtraction Sentences to Write Related Addition Sentences | |
| 4-9 Unknowns in Addition Equations | A) Pictures to Find Missing Numbers in Addition Sentences | 1.OA.1, 1.OA.4, 1.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 | 1.OA.1, 1.OA.4, 1.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 | CCSS |
|------------------------------|--|--------------|
| 5-1 Attributes of 2-D Shapes | A) Closed Figures | 1.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 | 1.G.1 |
| | B) Identifying 2-D Figures | |
| 5-3 Composite Figures | A) Identifying Similar 2-D Figures | 1.G.1, 1.G.2 |
| | B) Composite 2-D Figures | |
| 5-4 3-D Shapes | A) Identifying 3-D Solids | 1.G.1, 1.G.2 |
| | B) Composite 3-D Figures | |
| 5-5 Identifying Equal Parts | A) Identifying Equal Parts in a Figure | 1.G.3 |
| 5-6 Naming Equal Parts | A) Naming Equal Parts of a Fractional Figure | 1.G.3 |
| | B) Equal Parts in a Whole | |

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Chapter 6 Place Value

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

| Lesson | Topic | CCSS |
|--|--|---------|
| 7-1 Counting by Ones to 100 | A) Counting Forward and Backward by Ones to 100 | 1.NBT.1 |
| 7-2 Counting by Tens to 100 | A) Counting Forward and Backward by Tens to 100 | 1.NBT.1 |
| 7-3 Counting to 120 | A) Counting Forward and Backward by Ones to 120 | 1.NBT.1 |
| | B) Counting Forward by Tens to 120 | |
| 7-4 Reading and Writing Numbers to 120 | A) Reading and Writing Multiples of Ten | 1.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 | CCSS |
|---|--|------------------|
| 8-1 Add Two Multiples of Ten with Models | A) Base Ten Blocks to Add Multiples of Ten with Sums Less Than 100 | 1.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 | 1.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 | 1.NBT.4, 1.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 | 1.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 | 1.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 | 1.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 | 1.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 | 1.OA.8, 1.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 | 1.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 | CCSS |
|--|---|------------------|
| 8-10 Subtract a Multiple of Ten by Counting by Ten | A) Hundreds Charts to Subtract Multiples of Ten Less Than 100 | 1.NBT.5, 1.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 | CCSS |
|---|---|--------|
| 9-1 Comparing Lengths | A) Comparing the Lengths of Objects | 1.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 | 1.MD.2 |
| 9-3 Completing Frequency Tables | A) Making Frequency Tables | 1.MD.4 |
| 9-4 Reading Frequency Tables | A) Reading Frequency Tables | 1.MD.4 |
| 9-5 Making Pictographs | A) Making Pictographs | 1.MD.4 |
| 9-6 Reading Pictographs | A) Reading Pictographs | 1.MD.4 |

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Chapter 10 Time and Money

| Lesson | Topic | CCSS |
|--------------------------------------|--|--------|
| 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 | 1.MD.3 |
| 10-3 Hours and Minutes on a Clock | A) Understanding the Hour Hand | 1.MD.3 |
| | B) Understanding the Minute Hand | |
| 10-4 Telling Time on an Analog Clock | A) Reading Time to the Hour and Half Hour on an Analog Clock | 1.MD.3 |
| 10-5 Showing Time on an Analog Clock | A) Showing Time to the Hour and Half Hour on an Analog Clock | 1.MD.3 |
| 10-6 Coins | A) Values of Coins | 2.MD.8 |
| | B) Identifying Coins from Images and Values | |