

# Knowre Math: Grade 2 Curriculum

## Chapter 1 Basic Addition Facts

Lesson	Topic	IAS
1-1 Points on Number Lines	A) Points on Number Lines	2.NS.3
	B) Distance Between Points on a Number Line	
1-2 Moving Points on Number Lines	A) Moving Points to the Right and Left on a Number Line	2.NS.3
1-3 Counting On	A) Counting On to Add One-Digit Numbers	2.CA.1
1-4 Using Number Lines to Make Ten	A) Adding to Ten	2.CA.1, 2.CA.2
	B) Counting On to Add Ten and a One-Digit Number	
1-5 Making Ten to Add	A) Adding by Making Ten	2.CA.1, 2.CA.2
1-6 Adding One-Digit Numbers	A) Adding One-Digit Numbers	2.CA.1, 2.CA.2
1-7 Adding Three or More One-Digit Numbers	A) Adding Ten and a One-Digit Number	2.CA.1
	B) Adding Three or More One-Digit Numbers	

## Chapter 2 Basic Subtraction Facts

Lesson	Topic	IAS
2-1 Counting Back	A) Counting Back to Subtract One-Digit Numbers	2.CA.1
2-2 Making Ten to Subtract	A) Differences of Ten	2.CA.1, 2.CA.2
	B) Subtracting One-Digit Numbers by Making Ten	
2-3 Subtracting within Twenty	A) Differences Less Than Ten When Subtracting One-Digit Numbers	2.CA.1, 2.CA.2
2-4 Addition Expressions	A) Parts of Addition Sentences	2.CA.2
	B) Addition Expressions and Equations	
2-5 Subtraction Expressions	A) Parts of Subtraction Sentences	2.CA.2
	B) Subtraction Expressions and Equations	
	C) Expressions with More Than One Addition and/or Subtraction Operation	
2-6 Relationship Between Addition and Subtraction	A) Using Addition Sentences to Write Related Subtraction Sentences	2.CA.2
	B) Missing Numbers in Addition Sentences	
	C) Using Subtraction Sentences to Write Related Addition Sentences	
	D) Missing Numbers in Subtraction Sentences	

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## Chapter 3 Numbers Less than 100

Lesson	Topic	IAS
3-1 Models of Numbers Less Than 100 – No Regrouping	A) Modeling Numbers to 20 with Ones	2.NS.2
	B) Regrouping Ones	
	C) Tens and Ones to Write Numbers	
3-2 Models of Numbers Less Than 100 – Regrouping	A) Using Base Ten Blocks to Model Numbers	2.NS.2
3-3 Place Values of Numbers Less Than 100	A) Place Values Less Than Hundreds	2.NS.2
3-4 Expanded Form of Numbers Less Than 100	A) Expanded and Standard Form of Numbers	2.NS.2
3-5 Reading and Writing Numbers Less Than 100	A) Reading and Writing One-Digit Numbers	2.NS.2
	B) Reading and Writing Two-Digit Numbers	
3-6 Counting by Ones, Fives, and Tens within 100	A) Counting by Ones	2.NS.1
	B) Counting by Tens	
	C) Counting by Fives	
3-7 Adding and Subtracting Ten	A) Adding Ten to a Two-Digit Number	2.NS.1
	B) Subtracting Ten from a Two-Digit Number	
3-8 Ordinal Numbers	A) Ordinal Position of Objects – First Through Twentieth	2.NS.4
3-9 Even and Odd Numbers to 20	A) Even and Odd Numbers	2.NS.5
3-10 Even Numbers	A) Writing Numbers as the Sum of Two Equal Addends	2.NS.5
3-11 Comparing Numbers Less Than 100	A) Inequality and Equality Symbols and Phrases	2.NS.7
	B) Base Ten Blocks to Compare Numbers	
	C) Place Values to Compare Numbers	
	D) Comparing Numbers	

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## Chapter 4 Add Whole Numbers: Sums Less Than 100

Lesson	Topic	IAS
4-1 Add One-Digit and Two-Digit Numbers - No Regrouping	A) Base Ten Blocks to Add One-Digit and Two-Digit Numbers without Regrouping	2.CA.1, 2.CA.2
	B) Place Values to Add One-Digit and Two-Digit Numbers without Regrouping	
	C) Adding One-Digit and Two-Digit Numbers without Regrouping	
4-2 Add One-Digit and Two-Digit Numbers - Regrouping	A) Base Ten Blocks to Add One-Digit and Two-Digit Numbers with Regrouping of Ones	2.CA.1, 2.CA.2
	B) Place Values to Add One-Digit and Two-Digit Numbers with Regrouping of Ones	
	C) Adding One-Digit and Two-Digit Numbers with Regrouping of Ones	
4-3 Add Two-digit Numbers - No Regrouping	A) Base Ten Blocks to Add Two-Digit Numbers without Regrouping	2.CA.1, 2.CA.2
	B) Place Values to Add Two-Digit Numbers without Regrouping	
	C) Adding Two-Digit Numbers without Regrouping	
4-4 Add Two-digit Numbers - Regrouping	A) Base Ten Blocks to Add Two-Digit Numbers with Regrouping of Ones	2.CA.1, 2.CA.2
	B) Place Values to Add Two-Digit Numbers with Regrouping of Ones	
	C) Adding Two-Digit Numbers with Regrouping of Ones	

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## Chapter 5 Subtract Whole Numbers: Minuends Less Than 100

Lesson	Topic	IAS
5-1 One- and Two-Digit Differences - No Regrouping	A) Base Ten Blocks to Subtract One-Digit and Two-Digit Numbers without Regrouping	2.CA.1, 2.CA.2
	B) Place Values to Subtract One-Digit and Two-Digit Numbers without Regrouping	
	C) Subtracting One-Digit and Two-Digit Numbers without Regrouping	
5-2 One- and Two-Digit Differences - Regrouping	A) Base Ten Blocks to Subtract One-Digit and Two-Digit Numbers with Regrouping	2.CA.1, 2.CA.2
	B) Place Values to Subtract One-Digit and Two-Digit Numbers with Regrouping	
	C) Subtracting One-Digit and Two-Digit Numbers with Regrouping	
5-3 Subtract Two-Digit Numbers - No Regrouping	A) Base Ten Blocks to Subtract Two-Digit Numbers without Regrouping	2.CA.1, 2.CA.2
	B) Place Values to Subtract Two-Digit Numbers without Regrouping	
	C) Subtracting Two-Digit Numbers without Regrouping	
5-4 Subtract Two-Digit Numbers - Regrouping	A) Base Ten Blocks to Subtract Two-Digit Numbers with Regrouping	2.CA.1, 2.CA.2
	B) Place Values to Subtract Two-Digit Numbers with Regrouping	
	C) Subtracting Two-Digit Numbers with Regrouping	
5-5 Adding or Subtracting Three or More Numbers - Less Than 100	A) Adding Three or More One-Digit Numbers	2.CA.1, 2.CA.2
	B) Adding Three or More One-Digit or Two-Digit Numbers	
	C) Subtracting Three or More One-Digit or Two-Digit Numbers	
	D) Adding and Subtracting Three or More One-Digit or Two-Digit Numbers	

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## Chapter 6 Numbers Less Than 1,000

Lesson	Topic	IAS
6-1 Using Models to Make Numbers Less Than 1,000	A) Using Base Ten Blocks to Model Numbers	2.NS.2, 2.NS.6
6-2 Using Models to Write Numbers Less Than 1,000	A) Using Base Ten Blocks to Write Numbers	2.NS.2, 2.NS.6
6-3 Place Values of Numbers Less Than 1,000	A) Place Values Less Than Thousands	2.NS.2, 2.NS.6
6-4 Expanded Form of Numbers Less Than 1,000	A) Expanded and Standard Form of Numbers	2.NS.2, 2.NS.6
6-5 Reading and Writing Numbers Less Than 1,000	A) Reading and Writing Three-Digit Numbers in Words	2.NS.2
6-6 Counting by Ones within 1,000	A) Counting by Ones	2.NS.1, 2.CA.4
6-7 Counting by Tens within 1,000	A) Counting by Tens	2.NS.1, 2.CA.4
	B) Adding Ten to a Three-Digit Number	
	C) Subtracting Ten from a Three-Digit Number	
6-8 Counting by Hundreds within 1,000	A) Counting by Hundreds	2.NS.1, 2.CA.4
	B) Adding One Hundred	
	C) Subtracting One Hundred	
6-9 Counting by Fives within 1,000	A) Counting by Fives	2.NS.1, 2.CA.4
6-10 Comparing Numbers Less Than 1,000	A) Base Ten Blocks to Compare Numbers	2.NS.7
	B) Place Values to Compare Numbers	
	C) Comparing Numbers	

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## Chapter 7 Add Whole Numbers: Sums Less Than 1,000

Lesson	Topic	IAS
7-1 Add Two-Digit Numbers	A) Using Models to Add Two Two-Digit Numbers - One Regrouping	2.CA.4
	B) Standard Algorithm to Add Two Two-Digit Numbers - One Regrouping	
7-2 Add Two-Digit and One-Digit Numbers	A) Using Models to Add One-Digit and Two-Digit Numbers - Sum is 100 or More	2.CA.4
	B) Standard Algorithm to Add One-Digit and Two-Digit Numbers - Sum is 100 or More	
7-3 Add Two-Digit Numbers - Two Regroupings	A) Using Models to Add Two Two-Digit Numbers - Sum is 100 or More and Two Regroupings	2.CA.4
	B) Standard Algorithm to Add Two Two-Digit Numbers - Sum is 100 or More and Two Regroupings	
7-4 Add Three-Digit and One-Digit Numbers - No Regrouping	A) Using Models to Add One-Digit and Three-Digit Numbers - No Regrouping	2.CA.4
	B) Standard Algorithm to Add One-Digit and Three-Digit Numbers - No Regrouping	
7-5 Add Three-Digit and One-Digit Numbers - One Regrouping	A) Using Models to Add One-Digit and Three-Digit Numbers - One Regrouping	2.CA.4
	B) Standard Algorithm to Add One-Digit and Three-Digit Numbers - One Regrouping	
7-6 Add Three-Digit and One-Digit Numbers - Two Regroupings	A) Using Models to Add One-Digit and Three-Digit Numbers - Two Regroupings	2.CA.4
	B) Standard Algorithm to Add One-Digit and Three-Digit Numbers - Two Regroupings	
7-7 Add Three-Digit and Two-Digit Numbers - No Regrouping	A) Using Models to Add Two-Digit and Three-Digit Numbers - No Regrouping	2.CA.4
	B) Standard Algorithm to Add Two-Digit and Three-Digit Numbers - No Regrouping	
7-8 Add Three-Digit and Two-Digit Numbers - One Regrouping	A) Using Models to Add Two-Digit and Three-Digit Numbers - One Regrouping	2.CA.4
	B) Standard Algorithm to Add Two-Digit and Three-Digit Numbers - One Regrouping	
7-9 Add Three-Digit and Two-Digit Numbers - Two Regroupings	A) Using Models to Add Two-Digit and Three-Digit Numbers - Two Regroupings	2.CA.4
	B) Standard Algorithm to Add Two-Digit and Three-Digit Numbers - Two Regroupings	

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## Chapter 7 Add Whole Numbers: Sums Less Than 1,000 (cont.)

Lesson	Topic	IAS
7-10 Add Two Three-Digit Numbers – No Regrouping	A) Using Models to Add Two Three-Digit Numbers - No Regrouping	2.CA.4
	B) Standard Algorithm to Add Two Three-Digit Numbers - No Regrouping	
7-11 Add Two Three-Digit Numbers – One Regrouping	A) Using Models to Add Two Three-Digit Numbers - One Regrouping	2.CA.4
	B) Standard Algorithm to Add Two Three-Digit Numbers - One Regrouping	
7-12 Add Two Three-Digit Numbers – Two Regroupings	A) Using Models to Add Two Three-Digit Numbers - Two Regroupings	2.CA.4
	B) Standard Algorithm to Add Two Three-Digit Numbers - Two Regroupings	
7-13 Horizontal Addition	A) Adding a One- or Two-Digit Number to a Two-Digit Number with Regrouping of Tens	2.CA.4
	B) Adding a One-, Two-, or Three-Digit Number to a Three-Digit Number	
	C) Adding Three or More One-Digit and Two-Digit Numbers	

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## Chapter 8 Subtract Whole Numbers: Minuends Less Than 1,000

Lesson	Topic	IAS
8-1 Subtract One-Digit Numbers from Three-Digit Numbers - No Regrouping	A) Using Models to Subtract One-Digit and Three-Digit Numbers - No Regrouping	2.CA.4
	B) Standard Algorithm to Subtract One-Digit and Three-Digit Numbers - No Regrouping	
8-2 Subtract One-Digit Numbers from Three-Digit Numbers - One Regrouping	A) Using Models to Subtract One-Digit and Three-Digit Numbers - One Regrouping	2.CA.4
	B) Standard Algorithm to Subtract One-Digit and Three-Digit Numbers - One Regrouping	
8-3 Subtract Two-Digit Numbers from Three-Digit Numbers - No Regrouping	A) Using Models to Subtract Two-Digit and Three-Digit Numbers - No Regrouping	2.CA.4
	B) Standard Algorithm to Subtract Two-Digit and Three-Digit Numbers - No Regrouping	
8-4 Subtract Two-Digit Numbers from Three-Digit Numbers - One Regrouping	A) Using Models to Subtract Two-Digit and Three-Digit Numbers - One Regrouping	2.CA.4
	B) Standard Algorithm to Subtract Two-Digit and Three-Digit Numbers - One Regrouping	
8-5 Subtract Two-Digit Numbers from Three-Digit Numbers - Two Regroupings	A) Using Models to Subtract Two-Digit and Three-Digit Numbers - Two Regroupings	2.CA.4
	B) Standard Algorithm to Subtract Two-Digit and Three-Digit Numbers - Two Regroupings	
8-6 Subtract Two Three-Digit Numbers - No Regrouping	A) Using Models to Subtract Three-Digit Numbers - No Regrouping	2.CA.4
	B) Standard Algorithm to Subtract Three-Digit Numbers - No Regrouping	
8-7 Subtract Two Three-Digit Numbers - One Regrouping	A) Using Models to Subtract Three-Digit Numbers - One Regrouping	2.CA.4
	B) Standard Algorithm to Subtract Three-Digit Numbers - One Regrouping	
8-8 Subtract Two Three-Digit Numbers - Two Regroupings	A) Using Models to Subtract Three-Digit Numbers	2.CA.4
	B) Standard Algorithm to Subtract Three-Digit Numbers	
8-9 Subtract One-Digit Numbers from Three-Digit Numbers Across Zeros	A) Using Models to Subtract One-Digit and Three-Digit Numbers - Two Regroupings Across Zero	2.CA.4
	B) Standard Algorithm to Subtract One-Digit and Three-Digit Numbers - Two Regroupings Across Zero	



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## Chapter 8 Subtract Whole Numbers: Minuends Less Than 1,000 (cont.)

Lesson	Topic	IAS
8-10 Subtract Two-Digit Numbers from Three-Digit Numbers Across Zeros	A) Using Models to Subtract Two-Digit and Three-Digit Numbers - Two Regroupings Across Zero	2.CA.4
	B) Standard Algorithm to Subtract Two-Digit and Three-Digit Numbers - Two Regroupings Across Zero	
8-11 Subtract Two Three-Digit Numbers Across Zeros	A) Using Models to Subtract Three-Digit Numbers - Two Regroupings Across Zero	2.CA.4
	B) Standard Algorithm to Subtract Three-Digit Numbers - Two Regroupings Across Zero	
8-12 Horizontal Subtraction	A) Subtracting from Three-Digit Numbers	2.CA.1, 2.CA.4
	B) Subtracting Three of More Numbers Horizontally	
	C) Adding and Subtracting Three of More Numbers Horizontally	
8-13 Relationship Between Addition and Subtraction - Less Than 1,000	A) Missing Numbers in Addition Sentences	2.CA.1, 2.CA.4
	B) Missing Numbers in Subtraction Sentences	

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## Chapter 9 Measuring Lengths

Lesson	Topic	IAS
9-1 Customary Units of Measurement - Inches	A) Using Inches to Measure Objects	2.CA.3, 2.M.1, 2.M.2
9-2 Customary Units of Measurement - Feet	A) Using Feet to Measure Objects	2.CA.3, 2.M.1, 2.M.2
9-3 Customary Units of Measurement - Yards	A) Using Yards to Measure Objects	2.CA.3, 2.M.1,
	B) Estimating with Customary Units of Length	2.M.2
9-4 Metric Units of Measurement - Centimeters	A) Using Centimeters to Measure	2.CA.3, 2.M.1, 2.M.2
9-5 Metric Units of Measurement - Meters	A) Using Meters to Measure	2.CA.3, 2.M.1,
	B) Estimating with Metric Units of Length	2.M.2
9-6 Comparing Lengths	A) Longer and Shorter	2.CA.3, 2.M.3
	B) Comparing Measures of Length Between Systems	

## Chapter 10 Displays of Data

Lesson	Topic	IAS
10-1 Tally Marks and Frequency Tables	A) Understanding Tally Marks	
	B) Completing Frequency and Tally Tables	
10-2 Reading Tally Tables	A) Reading Tally Tables	
10-3 Making Pictographs	A) Making Pictographs	2.DA.1
10-4 Reading Pictographs	A) Reading Pictographs	2.DA.1
10-5 Making Bar Graphs	A) Making Bar Graphs	2.DA.1
10-6 Reading Bar Graphs	A) Reading Bar Graphs	2.DA.1
10-7 Making Line Plots	A) Making Line Plots	3.DA.2
10-8 Reading Line Plots	A) Reading Line Plots	4.DA.1

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## Chapter 11 Two- and Three-Dimensional Figures

Lesson	Topic	IAS
11-1 Attributes of Two-Dimensional Figures	A) Sides, Angles, and Vertices of Two-Dimensional Figures	2.G.1
11-2 Identifying Two-Dimensional Figures	A) Identifying Two-Dimensional Figures	2.G.1
11-3 Identifying Two-Dimensional Shapes by Name	A) Using Attributes to Name a Figure	2.G.1
	B) Using the Name of a Figure to Identify Attributes	
11-4 Attributes of Three-Dimensional Figures	A) Vertices, Faces, and Edges of Three-Dimensional Figures	2.G.1
11-5 Identifying Three-Dimensional Figures	A) Identifying Solids	2.G.1
	B) Two-Dimensional Figures that Form Three-Dimensional Solids	
11-6 Rows and Columns in Arrays	A) Rows and Columns of Arrays	2.CA.5, 2.G.4
11-7 Arrays and Equal Groups	A) Using an Array to Write an Addition Expression	2.CA.5, 2.G.4
	B) Finding the Size of an Array	
11-8 Equal Parts	A) Identifying Equal Parts	2.G.5
	B) Naming Equal Parts	
	C) Equal Parts in a Whole	

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## Chapter 12 Time and Money

Lesson	Topic	IAS
12-1 Reading Time on Clocks	A) Clockwise and Counterclockwise	2.M.5
	B) Reading Time on Analog Clocks	
12-2 Showing Time on Clocks	A) Showing Time on Analog Clocks	2.M.5
12-3 Using Words to Tell Time	A) Reading Time on Analog Clocks - Common Phrases	2.M.5
12-4 Showing Time on Clocks from Words	A) Showing time on Analog Clocks from Words	2.M.5
12-5 Coins	A) Value Pennies	2.M.7
	B) Value of Nickels	
	C) Value of Dimes	
	D) Value of Quarters	
	E) Identifying Coins from Images and Values	
12-6 Sets of Coins	A) Values of Sets of Mixed Coins	2.M.7
12-7 Dollars and Cents	A) Value of Dollars	2.M.7
	B) Values of Sets of Bills and Coins	