2nd Grade
Math Curriculum

Month	Content	Skills	Vocabulary	Assessments	Standards	Resources
August - December	Addition facts with sums through 20	1. Write sums through 20.		• Timed addition tests	2.A.2.2. (Application) Solve open addition and subtraction sentences with one unknown (▢) using numbers equal to or less than 20.	Math Facts in a Flash
Quarterly	General Math Content	1. Choose and enter the appropriate answer.		• Star Math		
Quarter One: August-October (Chapters 1 – 3, 5-6, 10)	Unit 1: Number Concepts, Addition, Subtraction, and Graphing Chapter 1: Number Concepts Through 50	1. Read and write numbers and number words through 50. 2. Compare and order numbers through 50. 3. Estimate amounts through 50. 4. Choose the most reasonable answer in a story problem.	number line before after less more greater than > less than < fewer estimate	• Worksheet over reading and writing numbers and number words to 50, ordering and comparing numbers through 50, and estimating amounts through 50, appropriate answer (1-4) • Chapter Test 1 over Number Concepts Through 50.	Skill 1: 2.A.2.1. (Comprehension) Use concepts of equal to, greater than, and less than to compare numbers (0-100). Skill 2: 2.N.1.1. (Comprehension) Read, write, count, and sequence numerals to 100. Skill 3: 2.M.1.5. (Comprehension) Use whole number approximations for capacity using non-standard units of measure. Skill 4: 2.N.3.1. (Application) Solve addition and subtraction problems up to 100 in context.	1. Match numbers to word names on white board (p.9) 1. Journal (p.9) / groups of 10 2. Journal/picture of numbers (p.12) 3. Oral questions (p.15) 3. Demonstrate using jar of items (estimate) 4. Write/solve a story problem

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September	Unit 1, Chapter 2: Addition Facts	1. Solve addition problems using the order (commutative) property and zero (identity) properties. 2. Complete addition problems using the number line to count on. 3. Find the sum of whole numbers using doubles and doubles plus one. 4. Find the sum of whole numbers by adding 10 to 1-digit numbers. 5. Make a 10 to find sums to 18. 6. Add three addends using the associative rule. 7. Solve a problem by drawing a picture.	add sum number line addends	• Worksheets solving addition problems using a variety of addition strategies as listed in the skills column. • Chapter Test 2 over Addition Facts	Skill 1-6: 2.A.2.2. (Application) Solve open addition and subtraction sentences with one unknown (☐) using numbers equal to or less than 20. Skill 7: 2.N.3.1. (Application) Solve addition and subtraction problems up to 100 in context.	1.Transparency 2.1 (p.28) 2.journal p 30/count on 4.lesson intervention/color cubes (p.38) 5.show facts to 18 using a ten frame 6. On-line math game: Rock Hopper http://www.eduplace.com/kids/mw/g_2.html 7.transparency 2.7/lesson quiz (p41A)

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September	Unit 1, Chapter 3: Subtraction Facts	1. Subtract with zero 2. Use a number line to count back 3. Subtract to compare 4. Use related addition facts 5. Choose and construct equations that name the same number 6. Use fact families to solve equations 7. Find the value of variables in number sentences 8. Write and solve a number sentence	subtract difference fact family	• Worksheets solving subtraction problems using a variety of subtraction strategies as listed in skills column. • Chapter 3 Test over Subtraction Facts • Unit One Test over Number Concepts, Addition, Subtraction (cross out Graphing problems)	Skills: 1, 2, 5, 6: 2.A.2.2. (Application) Solve open addition and subtraction sentences with one unknown (☐) using numbers equal to or less than 20. Skill 4: 2.A.2.3. (Application) Balance simple addition and subtraction equations using sums up to 20. Skill 8: 2.A.3.1. (Application) Write and solve number sentences from word problems. Skill 8: 2.N.3.1. (Application) Solve addition and subtraction problems up to 100 in context.	1, 2, & 8. Unit project/postmark stamp (p.49D) 3.partner work/cubes in the bag (p.55B) 4.Art connection (57B) 5. roll cubes/ write + & - names for number rolled or write number sentences that name the same number. Children circle the sum or difference (p.62). On-line math game: Find a Friend (p.63) journal (p.66)
October	Unit 2: Numbers Through 100 Chapter 5: Place Value	1. Express and write numbers to 100 2. Recognize and write tens and ones to show the number 3. Recognize the value of a digit 4. Restate a number in words, models and expanded form 5. Compare 2-digit numbers using < and > 6. Choose the most reasonable answer in a story problem	tens value ones digit place greater than less than equal to	• Worksheets over numbers in the ones and tens place • Chapter 5 Test over place value to the tens place	Skills 1, 2, 3, 4: 2.N.1.1. (Comprehension) Read, write, count, and sequence numerals to 100. Skills: 1, 5: 2.A.2.1. (Comprehension) Use concepts of equal to, greater than, and less than to compare numbers (0-100). Skill 6: 2.N.3.1. (Application) Solve addition and subtraction problems up to 100 in context.	1. Warm up activity/ cube train p 123 2. Workmat 5 p 126 3. Transparency 5.3 (p.127A) 4. Worksheet p. 129 5. In pairs, have children use <,> signs on cards to create a number sentence.

Month	Content	Skills	Vocabulary	Assessments	Standards	Resources
October	Unit 2, Chapter 6: Number Concepts and Patterns	1. Recognize even and odd numbers 2. Recognize patterns to count by 2s, 3s, 4s, 5s, and 10s 3. Order 2-digit numbers to 100 4. Use ordinal numbers to 20th; 100th 5. Describe, extend and create repeating and growing patterns	even odd hundred chart just before between just after ordinal numbers repeating pattern growing pattern pattern unit	• Worksheets over number concepts and patterns • Chapter 6 Test over Number Concepts and Patterns • Unit Two Test over Numbers Through One Hundred	Skills 1, 2, 5: 2.A.4.1. (Comprehension) Find and extend growing patterns using symbols, objects, and numbers. Skills 2, 3: 2.N.1.1. (Comprehension) Read, write, count, and sequence numerals to 100.	1. Literature connection p.143B (Even Steven and Odd Todd) 2. Science connection p. 145B 3. p. 148 independent practice 4. Journal p. 150 1–4 quick check p. 152 4. On-line math game: Math Lingo p. 153B Demonstrate odd and even with cubes
October	Unit 4: Adding Two-Digit Numbers Chapter 10: Regrouping with Addition	1. Add tens using mental math 2. Add by counting on tens 3. Regroup ones as tens and ones 4. Add 1-digit to 2-digit numbers	sum add alike different pattern regroup tens ones regrouping information	• Worksheets over adding two-digit numbers with/without regrouping • Chapter 10 Test over Two-digit Addition with Regrouping	Skills 1-4: 2.N.2.1. (Application) Solve two-digit addition and subtraction problems written in horizontal and vertical formats using a variety of strategies.	1. Journal entry p. 264 2. Lesson intervention p. 266 3. Independent practice p. 268 4. On-line math game: Rock Hopper lesson intervention / using blocks p.174
Quarter 2 Nov.-Jan.	Unit 4, Chapter 11: Using Two-Digit Addition	1. Rewrite horizontal addition in vertical form 2. Estimate sums by rounding to the nearest ten 3. Choose an appropriate computation method 4. Add three 2-digit numbers	estimate round	• Worksheets over adding two-digit numbers with/without regrouping • Chapter 11 Test over Two-Digit Addition with/without Regrouping • Unit Four Test over Two-Digit Addition	Skills 1-4: 2.N.2.1. (Application) Solve two-digit addition and subtraction problems written in horizontal and vertical formats using a variety of strategies.	1. Practice page 290 2. Journal entry p. 292 3. Quick check p. 296 On-line math game: Find a Friend p 297B

Month	Content	Skills	Vocabulary	Assessments	Standards	Resources
Nov. - May	Subtraction facts from 18	1. Solve problems subtracting from 20		• Timed subtraction tests	2.A.2.2. (Application) Solve open addition and subtraction sentences with one unknown (☐) using numbers equal to or less than 20.	Math Facts in a Flash
December	Unit 5: Subtraction Two-Digit Numbers Chapter 12: Regrouping with Subtraction	1. Subtract tens using mental math 2. Solve problems by counting back by 10's 3. Regroup 1 ten to 10 ones 4. Subtract 1-digit numbers from 2-digit numbers 5. Subtract 2-digit numbers	subtract difference regroup	• Worksheets over subtraction of 2-digit numbers with/without regrouping • Chapter 12 Test over Subtraction of 2-Digit Numbers with/without Regrouping	Skills 1, 2, 4, 5: 2.N.2.1. (Application) Solve two-digit addition and subtraction problems written in horizontal and vertical formats using a variety of strategies. Skill 2: 2.A.4.1. (Comprehension) Find and extend growing patterns using symbols, objects, and numbers.	1,2 hundred chart transparency p. 326 3. Independent practice p.329 4 Science connection p.329B 5. Social studies connection/using a flag p. 333B
December	Unit 5, Chapter 13: Using Two-Digit Subtraction	1. Rewrite horizontal subtraction in vertical form 2. Practice 2-digit subtraction with and without regrouping 3. Estimate differences by rounding to the nearest ten 4. Choose an appropriate computation method 5. Use addition to check subtraction	estimate round	• Worksheets over subtraction of 2-digit numbers with/without regrouping • Chapter 13 Test over subtraction of 2-digit numbers with/without regrouping • Unit Five Test over Subtraction of 2-Digit Numbers with/without Regrouping	Skills 1, 2, 3, 5: 2.N.2.1. (Application) Solve two-digit addition and subtraction problems written in horizontal and vertical formats using a variety of strategies. Skill 4: 2.N.3.1. (Application) Solve addition and subtraction problems up to 100 in context.	1,2 Flying colors p.346 3. Lesson intervention p352 3. Practice page p.356 4. Journal entry p358

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December	Unit 3, Chapter 9: Fractions	1. Recognize and write unit fractions 2. Recognize and write non-unit fractions 3. Recognize and write fractions equal to and more than a whole 4. Compare fractions 5. Recognize and write fractions that represent part of a set	unit fraction whole greater than (>) less than (<)	• Worksheets over fractions to the 1/12 • Chapter 9 Test over Fractions to the 1/12 • Unit Three Test over Fractions	Skill 1-5: 2.N.1.2. (Comprehension) Identify and represent fractions as parts of a group. Skill 4: 2.A.2.1. (Comprehension) Use concepts of equal to, greater than, and less than to compare numbers (0-100).	1. Independent practice p.228 2. Transparency 9.2 p229A 3. Journal entry p. 232. 4-5 Model / write fractions of a set p.237 Demonstrate fractions using pattern blocks
January	Unit 6: Money and Time Chapter 14: Counting Money	1. Count sets of similar and mixed coins 2. Use $1.00; combinations of coins that equal $1.00 3. Write dollars and cents for amounts greater than $1.00 4. Show equal amounts with different coin combinations	dime nickel penny cent sign	• Worksheets over counting money up to $2.00 • Chapter 14 Test over Counting Money (up to $2.00)	Skill l: 2.N.1.1. (Comprehension) Read, write, count, and sequence numerals to 100. Skills 1, 4: 2.M.1.3. (Application) Determine the value of a collection of like and unlike coins with a value up to $1.00. Skill 3: 2.M.1.4. (Knowledge) Represent and write the value of money using the "¢" sign and in decimal form using the "$" sign.	1-3 Ongoing skill activity p. 381D Literature connection p392 Journal entry p. 396

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Month	Content	Skills	Vocabulary	Assessments	Standards	Resources
Third Quarter Jan. - March Ch. 15-18	Unit 6, Chapter 15: Using Money	1. Use coins to show an exact amount of money 2. Compare amounts of money 3. Use the fewest coins to show an amount of money 4. Add and subtract money amounts 5. Count on pennies, nickels, dimes, and quarters to make change	greater than (>) less than (<) equal (=) change nickel dime quarter	• Worksheets over comparing amounts of money and counting on to make change. • Chapter 15 Test over Using Money	Skills 1, 3: 2.M.1.3. (Application) Determine the value of a collection of like and unlike coins with a value up to $1.00. Skill 2: 2.A.2.1. (Comprehension) Use concepts of equal to, greater than, and less than to compare numbers (0-100). Skill 4: 2.N.2.1. (Application) Solve two-digit addition and subtraction problems written in horizontal and vertical formats using a variety of strategies.	1. Assess and close p. 408 2. Independent practice p 410 3–4 quick check p 416 5. Assess and close p.418
February	Unit 6, Chapter 16: Time and Calendar	1. Estimate and compare lengths of time 2. Tell time to the hour, half-hour, quarter-hour, 5 minutes, and to one minute 3. Find elapsed time 4. Use information on a calendar	seconds minute hour half-hour minute hand hour hand quarter-hour calendar	• Worksheets telling time to five minutes, reading a calendar, and comparing periods of time. • Chapter 16 Test over Time and Calendar	Skill 1, 2: 2.M.1.1. (Knowledge) Tell time to the minute using analog and digital clocks and relate time to daily events. Skill 4: 2.M.1.2. (Application) Use the calendar to solve problems.	1. Lesson intervention p.343 2. Practice p. 438 3. Practice game/Play All Day p. 440 3. Literature connection: Grouchy Ladybug p441B 4. Create a calendar page in computer lab (use Word)

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Month	Content	Skills	Vocabulary	Assessments	Standards	Resources
February March	Unit 7: Measurement Chapter 17: Length	1. Estimate and measure length in nonstandard units 2. Estimate and measure to the nearest inch; foot or yard 3. Estimate and measure to the nearest centimeter or meter 4. Find perimeter and area	length inch inch ruler inch (in.) foot feet (ft.) distance yard yardstick centimeter meter meterstick perimeter area square units	• Worksheets estimating and measuring length using nonstandard units, measuring to the nearest inch and nearest foot. • Chapter 17 Test over Length	Skill 1: 2.M.1.5. (Comprehension) Use whole number approximations for capacity using non-standard units of measure. Skill 2: 2.M.1.6. (Comprehension) Solve everyday problems by measuring length to the nearest inch or foot.	1. Use cubes train rulers p 473D 2. On Your Own p. 484 3. Practice p 490 Now Try This p.496 Measure to find perimeter and area.
March	Unit 7, Chapter 18: Weight, Capacity, and Temperature	1. Estimate and measure capacity in cups, pints, quarts, gallons, and liters 2. Estimate and measure weight in ounces and pounds 3. Estimate and measure mass in grams and kilograms 4. Read a thermometer and state the temperature	cup (c) pint (pt) quart (qt) gallon (gal) liter (L) milliliter (mL) weight pound (lb) ounce (oz) kilogram (kg) gram (g) thermometer temperature degrees Fahrenheit (°F) Celsius (°C)	• Worksheets using cups, pints, quarts, and gallons to estimate and measure capacity. • Worksheets to measure capacity using liters. • Worksheets estimating and measuring the weight of objects, using pounds and ounces. • Worksheets estimating and measuring the mass of objects, using kilograms and grams. • Worksheets reading Fahrenheit and Celsius thermometer. • Chapter 18 Test over Weight, Capacity, and Temperature	Skills 1-4: 2.M.1.7. (Application) Locate and name concrete objects that are about the same length, height, weight, capacity, and temperature as a given concrete object.	1. Journal entry p. 509 2. On Your Own p. 514 3. Quick Check p. 518 4. On-line math game: Math Lingo p.521B

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4th Qtr. March-May	Unit 3, Chapter 7: Plane Shapes	1. Identify and classify plane shapes 2. Describe and classify by sides and vertices 3. Identify congruent shapes 4. Identify and draw lines of symmetry 5. Combine and separate shapes 6. Identify slides/translations, flips/reflections and turns/rotations 7. Recognize and create geometric patterns	triangle rectangle square circle hexagon trapezoid sides vertex/vertices congruent line of symmetry slide flip turn	• Worksheets over plane shapes • Chapter 7 Test over Plane Shapes	Skill 1: 2.G.2.1. (Knowledge) Identify geometric figures regardless of position and orientation in space. Skill 2: 2.G.1.1. (Comprehension) Use the terms side and vertex (corners) to identify plane and solid figures. Skill 7: 2.G.1.1. (Comprehension) Use the terms side and vertex (corners) to identify plane and solid figures.	1–2 Unit project/identify and classify figures p. 177D 3.journal entry-congruent shapes p. 188 4.symmetry kites 5.lesson intervention/using paper squares p.194 6.Art connection 195B
April	Unit 3, Chapter 8: Solid Shapes	1. Identify solid shapes 2. Describe solid shapes by the number of faces, edges and vertices 3. Make plane shapes from the faces of solid shapes 4. Compare and classify solid shapes 5. Use charts to interpret data	solid shapes cube cylinder sphere square pyramid cone rectangular prism face vertex vertices edges	• Worksheets over solid shapes • Chapter 8 Test over Solid Shapes • Unit 3 Test over Geometry and Fractions	Skill 1: 2.G.2.1. (Knowledge) Identify geometric figures regardless of position and orientation in space. Sill 2, 4: 2.G.1.1. (Comprehension) Use the terms side and vertex (corners) to identify plane and solid figures. Skill 4: 2.A.4.2. (Comprehension) Determine likenesses and differences between sets.	1, 2, 4 Skit p 205D 3 On-line math game: RoboPacker p 211B

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April	Unit 1, Chapter 4: Data, Graphing, and Probability	1. Use tally marks; compare data 2. Interpret and make pictographs, and bar graphs 3. Use a coordinate grid 4. Locate range, mode, and median 5. Predict and record outcomes	survey tally marks data pictograph symbol bar graph grid ordered pairs mode range median more likely less likely equally likely certain probable impossible outcome predict	• Worksheets over collecting data, graphing data, and probability • Chapter 4 Test over Data, Graphing, and Probability • Unit One Test over Number Concepts, Addition, Subtraction, and Graphing	Skill 1: 2.S.1.1. (Comprehension) Use interviews, surveys, and observations to gather data. Skill 1: 2.N.3.1. (Application) Solve addition and subtraction problems up to 100 in context. Skills 2, 4: 2.S.1.3. (Comprehension) Answer questions about and generate explanations of data given in tables and graphs. Skill 5: 2.S.2.1. (Application) List possible outcomes of a simple event and make predictions about which outcome is more or less likely to occur.	1, 3, 5,Use fruit loops or m&ms to collect, organize, and display data 2. On-line math game: Math Lingo (p.81B) 4. literature connection (87B)
April/May	Unit 8: Numbers and Operations Through 1,000 Chapter 20: Numbers Through 1,000	1. Read and write numbers for hundreds, tens, and ones 2. Read and write numbers through 1,000 3. Show 3-digit numbers in different ways 4. Order and compare 3-digit numbers	hundreds digit greater than > less than < equal to = place value least greatest	• Worksheets for counting by hundreds, tens, and ones. • Worksheets identifying place value, read and write numbers through 1,000. • Worksheets comparing three-digit numbers to determine what comes before, after, and between. • Chapter 20 Test over Numbers Through 1,000	Skills 1-4: 2.N.1.1. (Comprehension) Read, write, count, and sequence numerals to 100.	1. Practice p574 2. Thousands club-make book 3. Journal Entry p.582 & 584 4. Quick Check p.580 Now Try This p.585