










Grade Two – Suggested Math Instructional Resources



Access Digital copy
here.

Number Sense

([Numbers](#) to 100 represent quantities that can be decomposed into 10s and 1s.)

Curricular Content	Curricular Competencies (The student can...)	Online Resources	Print Resources (all are available in the DLC or in schools)
Place value understanding to 100	<p>Develop number sense</p> <p>Represent and decompose numbers to 100.</p> <p>Count in various ways (by 2s, 5s, 10s from different starting points, ascending and descending).</p> <p>Compare and order numbers to 100 (put numbers in sequence, be able to tell what is 2 more/less, 5 more/less, ten more/less than a number).</p>	<p> Number Concepts Grades 3 - 5</p> <p> Composing & Decomposing #s to 100</p> <p> Counting Collections - Meaningful Math Moments</p> <p> Counting Collections - Math 4 Love</p> <p> Maze Hundreds Chart</p> <p> 20 Days of Number Sense</p> <p> Subitizing Slides</p> <p> 2nd Grade Number Sense Routines</p> <p> Games:</p> <ul style="list-style-type: none"> Pig Fill The Stairs Number concepts to 100 and 1 000 	<p><i>Messy Maths</i> (Robertson, 2016) Chapters 3 and 4</p> <ul style="list-style-type: none"> Pocket Number Lines (p. 50) The Number Sorting Factory (p. 65) <p><i>Place Value in Primary</i> (Fullerton, 2016)</p> <ul style="list-style-type: none"> Counting Collections to 100 (pp. 129-131) Representing Numbers to 100 (pp. 136-140) Comparing and Ordering Numbers to 100 (pp. 144-148) <p><i>Sums & Differences: Grade 2 & 3</i> (Fullerton, 2014)</p> <ul style="list-style-type: none"> Modeling Bigger Numbers Using Place Value (pp. 13-31) <p><i>Shuffling into Math</i> (Felling, 2022)</p> <ul style="list-style-type: none"> Quick Math Warm Ups (p. 116) Next in Line to 100 (pp. 131-134) Betweeners (pp. 137-139)



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Curricular Content	Curricular Competencies (The student can...)	Online Resources	Print Resources (all are available in the DLC or in schools)
			<p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> Chapter 10 (pp. 203-217) <p><i>How Many? A Different Kind of Counting Book</i> (Danielson, 2018)</p>

Computational Fluency

(Development of computational [fluency](#) in addition and subtraction with numbers to 100 requires an understanding of place value.)

Curricular Content	Curricular Competencies (The student can...)	Online Resources	Print Resources (all are available in the DLC or in schools)
Developing fluency with addition and subtraction facts to 20	Developing fluency (accuracy, efficiency and flexibility) through strategies for addition and subtraction facts to 20 - making and bridging 10, decomposing , using doubles and near doubles, counting on, counting up to find the difference, thinking about adding to subtract).	<ul style="list-style-type: none">   Building Fact Fluency - Lemonade (doubles)   Building Fact Fluency Making 10s  Splat!  Cuisenaire Rods for K/1/2  Flower Petal Puzzle  3 Act Tasks: <ul style="list-style-type: none"> Humpty Dumpty Bag-o-chips  Games: <ul style="list-style-type: none"> Sum What Math Game Face Off How Many are Hiding Lucky 13  Lesson Ideas for Number Sense, Operations and Geometry 	<p><i>Shuffling into Math</i> (Felling, 2022)</p> <ul style="list-style-type: none"> Subtraction Horse Race (pp. 48-51) Salute (pp. 67-70) <p><i>Messy Maths</i> (Robertson, 2016) Chapters 3 and 4</p> <ul style="list-style-type: none"> Subtraction (pp. 75-76) The Game of Nim (pp. 76-77) Add or Subtract (p. 74) <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> Chapter 8 (pp. 146-156) Chapter 9 (pp. 174-189) <p><i>Number Talks – Whole Number Computation</i> (Parrish, 2014)</p> <ul style="list-style-type: none"> pp. 88-96 <p><i>Mastering the Facts: Addition</i> (Fullerton, 2020)</p>
Addition and subtraction of two-digit numbers	Add and subtract two-digit numbers using decomposing , compensating , finding the difference and regrouping strategies and using tools such as ten frames, hundred charts and number lines.	<ul style="list-style-type: none">  3 Act Tasks: <ul style="list-style-type: none"> Bright Idea The Juggler 	<p><i>Shuffling into Math</i> (Felling, 2022)</p> <ul style="list-style-type: none"> Addition Baseball (pp. 91-95) Subtraction Baseball (pp. 96-102) Regrouping Scramble (pp. 103-104)



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			<p><i>Sums and Differences: Grades 1 & 2</i> (Fullerton, 2013)</p> <ul style="list-style-type: none"> • Adding 10's and 1's to Bigger Numbers with No Bridging (pp. 51-61) • Adding 10's and 1's to Bigger Numbers With Bridging (pp. 62-80) • Subtracting 10's and 1's from Bigger Numbers with No Bridging (pp. 109-119) • Subtracting 10's and 1's from Bigger Numbers with Bridging (pp. 120-142) <p><i>Number Talks – Whole Number Computation</i> (Parrish, 2014)</p> <ul style="list-style-type: none"> • pp. 119-154 <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> • Chapter 8 (pp. 147-158) <p><i>Good Questions: 2-4</i> (Fullerton, 2028)</p>
Change in quantity to 20 and within 100, concretely, verbally and using symbols	<p>Use materials such as blocks, ten frames or hundred charts to solve addition and subtraction equations with a missing part, for example $30 + ? = 55$.</p> <p>Verbally explain what they need to do to change 9 to 17 or 19 to 4. Record these changes using numbers and symbols such as $9 + n = 17$ or $19 - \underline{\quad} = 4$.</p>	<p> Games:</p> <ul style="list-style-type: none"> • Addition Scale • Missing Addend • Missing Subtrahend 	<p><i>Place Value in Primary</i> (Fullerton, 2016)</p> <ul style="list-style-type: none"> • Estimating Numbers to 10: Missing Parts and Open Sentences (pp. 149-153)



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General Resources

General Strategies and Routines	 Which One Doesn't Belong  Dot Card and Number Talks  Number Talk Images  Coast Metro Math Project	 Esti-Mysteries  The Estimation Clipboard  Cube Conversations  Estimation  Math Applications	 Supporting Numeracy in Early Years  Week of Inspirational Math  Building Thinking Classrooms  Puzzles, Problems and Tasks
Building Our Understanding	 Three Act Tasks Explained  Progression of Early Number and Counting	 Coast Metro Math Project  Progression of Addition and Subtraction	 Spiraling the Curriculum  Concreteness Fading  Building Math Fact Fluency
Classroom Assessment	 Coast Metro Math Project	 Assessing Curricular Competencies	
Indigenous Connections	 Coast Metro Math Project	 When Seagull Stole the Sun	 BC Numeracy Network
Planning	 BC Numeracy Network  Math Year Plan For K-5	 Critical Concepts Map	 Planning - Year, Week, Day

This document intentionally focusses on number sense and computational fluency as these are foundational skills that can be spiraled throughout the rest of the content standards while being grounded in the curricular competencies.

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