






Kindergarten - Suggested Math Instructional Resources



Access Digital copy here.

Number Sense

(Numbers represent quantities that can be decomposed into smaller parts.)

Curricular Content	Curricular Competencies (The student can...)	Online Resources	Print Resources (all are available in the DLC or in schools)
Ways to make 5	Build five in many ways (ie. 2 and 3, 4 and 1, 2 and 2 and 1) using concrete materials like blocks.	 Subitizing Slides  Kindergarten Number Sense Routines  Introducing Which One Doesn't Belong in Kindergarten   Kindergarten Specific Number Talks by Parrish	<p><i>Messy Maths (Robertson, 2016)</i> Chapters 3&4</p> <ul style="list-style-type: none"> The Big Outdoor Number Book (p.55) How Many Ways (p.74) <p><i>Good Questions for Building Number Sense in Kindergarten and Grade 1 (Fullerton, 2022)</i></p> <p><i>Place Value in Primary (Fullerton, 2016)</i></p> <ul style="list-style-type: none"> Representing Number (pp.14-16) Using 5-frames (pp.17-19) Matching Numerals (pp.33-35) <p><i>How Many? A Different Kind of Counting Book (Danielson, 2018)</i></p> <p><i>Elementary and Middle School Mathematics (Van de Walle, 2022)</i></p> <ul style="list-style-type: none"> Chapter 7 (ppp.118-144) <p><i>Number Talks: Whole Number Computation (Parrish, 2014)</i></p> <ul style="list-style-type: none"> Using dot images (pp. 70-73) Using Rekenreks (pp. 82-84) Using 5- frames (pp. 89-91)



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June 2023 v 1.0 Kindergarten

Curricular Content	Curricular Competencies (The student can...)	Online Resources	Print Resources (all are available in the DLC or in schools)
Representing numbers to 10	Represent quantities to 10 with materials, pictures and numbers.	 Cuisenaire Rods for K/1/2  Dot Cards and Ten Frame Activities  Subitizing Games  Lessons Ideas for Number Sense, Operations, Measurement and Geometry	<p><i>Place Value in Primary</i> (Fullerton, 2016)</p> <ul style="list-style-type: none"> Representing Numbers to 10 (pp.55-58) Using 10-Frames (pp.59-62) <p><i>Messy Maths</i> (Robertson, 2016) Chapters 3 and 4</p> <ul style="list-style-type: none"> One to One Matching of Number Names to Objects (p.52) Making a Staircase Number Line (p.64) <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> Chapter 7 (pp.118-144) <p>Number Talks – Whole Number Computation</p> <ul style="list-style-type: none"> p. 74-88
Counting to 10	Count to 10 in sequence and with one-to-one correspondence.	 Counting Collections  Counting Collections - Math 4 Love  Domino Sorting - Math 4 Love  Feet Under the Table - You Cubed  3 Act Task: <ul style="list-style-type: none"> Dotty Popping Balloons 	<p><i>How Many? A Different Kind of Counting Book</i> (Danielson, 2018)</p> <p><i>Messy Maths</i> (Robertson, 2016) Chapters 3 and 4</p> <ul style="list-style-type: none"> The Number Line Sorting Factory (p.65) Counting Backwards as well as Forwards (p.51) <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> Chapter 7 (pp.118-144)



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Curricular Content	Curricular Competencies (The student can...)	Online Resources	Print Resources (all are available in the DLC or in schools)
Decomposing numbers to 10	Compose and decompose numbers to 10 in many ways using materials, pictures and numbers.	 Splats through 10  20 Days of Number Sense  Game: How Many are Hiding	<i>Messy Maths (Robertson, 2016)</i> Chapters 3 and 4 <ul style="list-style-type: none"> Petra's Dice Pattern Game (p.58)
Compare more or less	Put numbers in sequence/order. Say whether a set of blocks/cubes has more or less than another set.	 Game: Comparing Cards  Game: Face Off  Information on Place Value	<i>Place Value in Primary (Fullerton, 2016)</i> <ul style="list-style-type: none"> Comparing and Ordering Numbers: More than (pp. 36-37) and Less Than (pp.38-40) <i>Messy Maths (Robertson, 2016)</i> Chapters 3 and 4 <ul style="list-style-type: none"> Environmental Number Lines (p.58) Pocket Number Lines (p.50) <i>Elementary and Middle School Mathematics (Van de Walle, 2022)</i> <ul style="list-style-type: none"> Chapter 7 (pp.118-144)
Change in quantity to 10 using concrete materials	Use materials like blocks to show how many is one more or two more than a number. Use materials like blocks to demonstrate understanding of build and change math stories such as "Show me three blocks. What do you need to do to change that to a group of five blocks?"	 Game: Evergreen Subitizing Games	<i>Messy Maths (Robertson, 2016)</i> Chapters 3 and 4 <ul style="list-style-type: none"> Making a Staircase Number Line (p.64) 'Show me' Games (p.74) Adding on Games (p.75) <i>Elementary and Middle School Mathematics (Van de Walle, 2022)</i> <ul style="list-style-type: none"> Chapter 7 (pp.118-144)



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General Resources

General Strategies and Routines	 Coast Metro Math Project  Which One Doesn't Belong  Puzzles, Problems and Tasks	 Dot Card and Number Talks  Week of Inspirational Math  Math Applications	 Supporting Numeracy in Early Years  Building Thinking Classrooms  Estimation
Building Our Understanding	 Coast Metro Math Project  What is number sense?	 Information on Subitizing  Progression of Early Number	 Building Math Fact Fluency  Concreteness Fading
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  Spiraling the Curriculum	 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.