



Grade Four – Suggested Math Instructional Resources











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Number Sense








(Fractions and decimals are types of [numbers](#) that can represent quantities.)









Curricular Content	Curricular Competencies (The student can...)	Online Resources	Print Resources (all are available in the DLC or in schools)
Place value understanding to 10 000	<p>Represent and decompose numbers to 10 000.</p> <p>Count in various ways (by various multiples, starting points, increasing/decreasing) with numbers up to 10 000.</p> <p>Compare and order numbers to 10 000 (put numbers in sequence, be able to tell what number is 5, 10, 100, and 1000 greater/less than another number).</p>	<p> Number Concepts Grades 3 - 5</p> <p> Skip counting</p>	<p><i>Place Value in Intermediate</i> (Fullerton, 2017)</p> <ul style="list-style-type: none"> • Big Numbers: Giant stick and Strange Facts, p. 159 • Metric Madness 2: From km to kg, p. 164 • Ten times more: Number lines Gone Crazy p. 170 <p><i>All Hands on Deck</i> (Felling, 2022)</p> <ul style="list-style-type: none"> • Place Value Games (Including decimals) pp 67-106 <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> • pp. 332-338 <p><i>Number Talks – Fractions, Decimals and Percentages</i> (Parrish, 2016)</p> <ul style="list-style-type: none"> • Chapter 4 – (pp. 72-82)







Curricular Content	Curricular Competencies (The student can...)	Online Resources	Print Resources (all are available in the DLC or in schools)
Fraction and decimal concepts	<p>Represent fraction and decimal numbers in different forms including with concrete materials, ten frames, pictures and symbols.</p> <p>Compare and order fractions (within 0-1) and decimal numbers (focus on tenths).</p> <p>Begin to use greater than and less than symbols.</p>	<p> Fraction Strip Exploration</p> <p> Decimal Place value tents</p> <p> Fractions with Cuisenaire Rods</p> <p>  Clothesline activities</p> <p> Intro to Class</p> <p> Fraction wars ( cards)</p>	<p><i>Proportional Reasoning in Intermediate</i> (Fullerton, 2019)</p> <ul style="list-style-type: none"> • Using a set model. pp. 32-36 • Using an area model. Pp. 60 -41 (using tangrams) • Linear model pp. 89 – 94 <p><i>Number Talks – Fractions, Decimals, and Percentages</i> (Parrish, 2016)</p> <ul style="list-style-type: none"> • Chapter 3 (pp. 61-71)

Computational Fluency





































(Development of computational [fluency](#) and multiplicative thinking requires analysis of patterns and relations in multiplication and division.)

Curricular Content	Curricular Competencies (The student can...)	Online Resources	Print Resources (all are available in the DLC or in schools)
Fluency with addition and subtraction facts and multiplication (and related division) facts	<p>Demonstrate fact fluency with addition and subtraction facts to 20 (with efficiency, accuracy and flexibility).</p> <p>Demonstrate fact fluency with 1x, 2x, 5x and 10x multiplication facts to 100 with developing fluency of other multiples derived from known facts.</p>	<p> Facts fluency resources and strategies</p> <p> Adding whole number Desmos activity</p> <p> 1-2 Nim Rich Task</p> <p> 4th Grade Number Sense Routines</p>	<p><i>Mastering the Multiplication Facts</i> (Fullerton, 2020)</p> <ul style="list-style-type: none"> The 1's (pp. 11-14) The 2's (pp. 15 - 19 + games) The 10's (pp. 35 - 39 + games) The 5's (pp. 40 - 44 + games) <p><i>Number Talks: Whole Number Computation</i> (Parrish, 2014)</p> <ul style="list-style-type: none"> Addition and subtraction (pp. 157 - 229) Addition and subtraction (pp. 230 - 299) Multiplication and Division Strategies (pp. 231-261) Multiplication and Division Number Talks (pp. 262-299) <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> Chapter 9 (pp.174-201)
Addition and subtraction within 10 000	<p>Add and subtract numbers within 10 000 using decomposing, compensating and regrouping strategies.</p> <p>Develop computational fluency through mental Math strategies and abilities to make sense of quantities</p>	<p> 5 Types of Addition Strategies</p> <p> Number talk fifth grade friendly numbers</p> <p> Number Talks with Equations</p>	<p><i>Number Talks: Whole Number Computation</i> (Parrish, 2014)</p> <ul style="list-style-type: none"> Addition & subtraction (pp. 157 - 229) Addition & subtraction (pp. 230 - 299)

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 11 (pp. 230-266) <p><i>Good Questions 2-4</i> (Fullerton, 2018)</p>
<p>Addition and subtraction with decimal numbers with tenths and hundredths</p>	<p>Add and subtract decimal numbers to the hundredths using whole number strategies such as decomposing by place value, compensating, finding the difference and regrouping.</p>	<ul style="list-style-type: none">  Ten frames Online manipulatives  Adding or Subtracting Decimals with Models 	<p><i>Place Value in Intermediate</i> (Fullerton, 2017)</p> <ul style="list-style-type: none"> beginning on p. 183 <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> pp. 415-417 <p><i>Good Questions 2-4</i> (Fullerton, 2018)</p>
<p>Multiplication including two or three-digit numbers by one digit.</p>	<p>Multiply numbers with two or three digits by one digit using more than one strategy such as area models, decomposing, regrouping, compensating, repeated addition.</p> <p>Develop an understanding of multiplication with larger numbers using models.</p>	<ul style="list-style-type: none">  Decomposing Numbers to Multiply:  Multiplying by Decomposing Numbers  Decomposing & distributive property <p>Open middle:</p> <ul style="list-style-type: none">  Multiplying Two-Digit Numbers – Closest to 7,000  Multiplication Decisions  Four Digit Products 	<p><i>Multiplicative Thinking</i> (Fullerton, 2015)</p> <ul style="list-style-type: none"> To Multiply or Not Multiply (p. 105) Multiplication and Area (p. 105) Multiplying by 10 & multiples of 10 (p. 112) Multiplying Bigger numbers: <ul style="list-style-type: none"> Decomposition and X 5 (p. 118) Using the Distributive property (p. 121) Area Models and the Distributive property (p. 124) <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> Chapter 12 (pp. 267-276) <p><i>Good Questions 2-4</i> (Fullerton, 2018)</p>

Curricular Content	Curricular Competencies (The student can...)	Online Resources	Print Resources (all are available in the DLC or in schools)
Division including two or three-digit numbers by one digit.	Divide numbers with two or three digits by one digit using more than one strategy such as, repeated subtraction, partial quotient and area models. Develop an understanding of division of larger numbers using models.	 Division using an Area Model  Division Using an Area Model  Partial Quotient Strategy for Division RY	<i>Number Talks: Whole Number Computation</i> (Parrish, 2014) <ul style="list-style-type: none"> • Multiplication and Division Strategies (pp. 231-261) • Multiplication and Division Number Talks (pp. 262-299) <i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022) <ul style="list-style-type: none"> • Chapter 12 (pp. 279-284)
Algebraic relationships among quantities	Use reasoning to verbally explain and represent with numbers and symbols, the process of solving for an unknown .	 Using Balance Scale and Algebra Tiles on Mathigon or Solve Me Mobiles	
One-step equations with an unknown number, using all operations	Solve equations with the unknown number in different spots such as: $2000 \times 30 = n$, $450 + n = 700$, $n - 2500 = 500$, $n = 6000 \div 200$ using strategies such as rewriting the equation, using related operations, using an open number line.	 Solving for an unknown change  Solving addition/subtraction and multiplication/division equations	<i>Algebraic Thinking</i> (Fullerton, 2020) <ul style="list-style-type: none"> • Solving Equations (pp 77-84, 97-102) <i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022) <ul style="list-style-type: none"> • p. 319

General Resources

General Strategies and Routines	<ul style="list-style-type: none">  Which One Doesn't Belong  Dot Card and Number Talks  Number Talk Images  Coast Metro Math Project  Interactive Simulations 	<ul style="list-style-type: none">  Esti-Mysteries  The Estimation Clipboard  Cube Conversations  Estimation  Math Applications 	<ul style="list-style-type: none">  Estimation 180  Week of Inspirational Math  Building Thinking Classrooms  Puzzles, Problems and Tasks
Building Our Understanding	<ul style="list-style-type: none">  Number Talks and Number Strings  Coast Metro Math Project  Concreteness Fading 	<ul style="list-style-type: none">  Number Talks & Number Strings  Spiraling the Curriculum  Progression of Fractions 	<ul style="list-style-type: none">  Number Talks  Progression of Multiplication  Progression of Division  Building Math Fact Fluency
Classroom Assessment	<ul style="list-style-type: none">  Coast Metro Math Project 	<ul style="list-style-type: none">  Island Numeracy Assessment 	<ul style="list-style-type: none">  Assessing Curricular Competencies
Indigenous Connections	<ul style="list-style-type: none">  Coast Metro Math Project 	<ul style="list-style-type: none">  When Seagull Stole the Sun 	<ul style="list-style-type: none">  BC Numeracy Network
Planning	<ul style="list-style-type: none">  BC Numeracy Network  Math Year Plan For K-5 	<ul style="list-style-type: none">  Critical Concepts Map  Coast Metro Math Year at a Glance 	<ul style="list-style-type: none">  Planning - Year, Week, Day  BCED K-4 Math progressions

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.

 video
  teacher backgrounder
  learning activity
  printable
  strategies & routines
  device required

Adapted from Richmond School District and Nanaimo Ladysmith Public Schools (with permission and gratitude)

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