










Grade Five – Suggested Math Instructional Resources



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Number Sense

([Numbers](#) describe quantities that can be represented by equivalent fractions.)

Curricular Content	Curricular Competencies (The student can...)	Online Resources	Print Resources (all are available in the DLC or in schools)
Place value understanding to 1 000 000	<p>Represent and decompose numbers to 1 000 000.</p> <p>Count in various ways (by various multiples, starting points, increasing/decreasing) with numbers up to 1 000 000.</p> <p>Compare and order numbers to 1 000 000 demonstrating understanding of place value.</p> <p>Begin to use greater than and less than symbols.</p>	<p>  Number Concepts Grades 3 - 5</p> <p> Hot Lunch Day</p>	<p><i>Place Value in Intermediate</i> (Fullerton, 2017),</p> <ul style="list-style-type: none"> beginning on p.182 <p><i>All Hands on Deck</i> (Felling, 2022)</p> <ul style="list-style-type: none"> Rock 'N Roll (p. 92-97) Switch It (p.100-102) <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> pp. 224-229
Fraction and decimal concepts	<p>Represent equivalent fractions using concrete materials, pictures and symbols.</p> <p>Compare and order fractions (within 0 -1) and decimal numbers (focus on hundredths).</p>	<p> Fraction Strip Exploration</p> <p> Decimal Place value tents</p> <p> Fractions with Cuisenaire Rods</p> <p> Clothesline activities</p> <p> Clothesline Intro to Class</p> <p> Fraction wars</p>	<p><i>Proportional Reasoning</i> (Fullerton, 2019)</p> <ul style="list-style-type: none"> Creating Equivalent Fractions, Expanding and Simplifying Fractions with Cuisenaire Rods (pp. 105-106) From Cuisenaire Rods to Number Lines Representing Fractions with a Linear Model (pp. 95-97) <p><i>All Hands on Deck</i> (Felling, 2022)</p> <ul style="list-style-type: none"> What's Your Number? (pp. 80-83)




 video
  teacher backgrounder
  learning activity
  printable
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Curricular Content	Curricular Competencies (The student can...)	Online Resources	Print Resources (all are available in the DLC or in schools)
		 Fraction Wars Cards	<ul style="list-style-type: none"> • Rock 'N Roll II (p. 92-97) <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> • p. 354-366 • p. 412-414 <p><i>Number Talks – Fractions, Decimals, and Percentages</i> (Parrish, 2016)</p> <ul style="list-style-type: none"> • Chapter 3 (pp. 63-106)








Computational Fluency






(Computational [fluency](#) and flexibility with numbers extend to operations with larger (multi-digit) numbers.)

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 2x, 3x, 4x, 5x and 10x multiplication facts to 100, and use known facts to derive other multiples and quotients (division questions).</p>	<p> Facts fluency resources and strategies</p> <p> Adding whole number Desmos activity</p> <p> 1-2 Nim Rich Task</p>	<p><i>Mastering the Facts Multiplication</i> (Fullerton, 2020),</p> <ul style="list-style-type: none"> The 2's (pp. 15-19) The 3's (pp. 25-29) The 4's (pp. 20-24) The 10's (pp. 35-38) The 5's (pp. 40-44) The Ugly Ones (pp. 49-53) <p><i>All Hands on Deck</i> (Felling, 2022)</p> <ul style="list-style-type: none"> Multiplication Tic Tac Toe (pp. 48-49) "24" (p. 157) <p><i>Number Talks –Whole Number Computation</i> (Parrish, 2014)</p> <ul style="list-style-type: none"> Multiplication and Division Strategies (pp. 231-261) Multiplication and Division Number Talks (pp. 262-299) What Does a Number Talk Look Like at My Grade Level? (pp. 324-330) <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	Add and subtract numbers within 1 000 000 using decomposing , compensating and		<p><i>All Hands on Deck</i> (Felling, 2020)</p> <ul style="list-style-type: none"> Break 100 (pp. 113-114)

































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to/within 1 000 000	regrouping strategies.		<p><i>Number Talks – Whole Number Computation</i> (Parrish, 2014)</p> <ul style="list-style-type: none"> Addition Subtraction Strategies (pp. 157-181) Addition Subtraction Number Talks (pp. 182-229) <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> Chapter 11 (pp.230-266)
Addition and subtraction with decimal numbers to thousandths	Add and subtract decimal numbers to the thousandths using whole number strategies such as decomposing by place value, compensating, finding the difference, and regrouping.	<p> Math Antics - Decimal Arithmetic(first 3:40)</p> <p> Addition and subtraction: Mental calculations - addition [FREE RESOURCE]</p> <p> Hot Lunch Day</p>	<p><i>Place Value in Intermediate</i> (Fullerton, 2017)</p> <ul style="list-style-type: none"> Beginning on p. 183 and 211 <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> pp. 415-417 <p><i>Number Talks – Fractions, Decimals, and Percentages</i> (Parrish, 2016)</p> <ul style="list-style-type: none"> Chapter 10 (pp. 333-367) <p><i>Good Questions 5-8</i> (Fullerton, 2018)</p>
Multiplication with three digit numbers	Multiply numbers with three-digits, using more than one strategy such decomposing, regrouping, compensating, distributive property, commutative property, repeated addition.	<p> Multiplication Properties Commutative, Associative, Identity, & Zero</p> <p> Math Antics - Multi-Digit Multiplication</p> <p> Box Method Multiplication 3-Digits x 1-Digit</p> <p> Lattice Method Multiplication</p>	<p><i>Mastering the Facts Multiplication</i> (Fullerton, 2020)</p> <ul style="list-style-type: none"> Multiplying the Bigger Ones- Decomposing (pp. 118-120) Multiplying the Bigger Ones- Distributive Property (pp. 121-123) Multiplying the Bigger Ones - Area Models & the Distributive Property (pp. 124-133)

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			<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>Multiplicative Thinking</i> (Fullerton, 2015)</p> <ul style="list-style-type: none"> pp. 118 - 133
<p>One-step equations with variables</p>	<p>Use reasoning to verbally explain and represent with numbers and symbols, the process of solving for an unknown (x).</p> <p>Solve equations with the unknown numbers such as:</p> <ul style="list-style-type: none"> $200\ 000 \times 30 = x$ $4.50 + x = 7.00$ $x - 2.750 = 5.000$ $x = 600\ 000 \div 2\ 000$ <p>Using strategies such as using a balance, using related operations and mental math, rewriting an equation, using an open number line, using whole number strategies and connecting them to decimal numbers</p>	<p> Algebra Basics: What Is Algebra? - Math Antics (first part of video only)</p> <p> Algebra Basics: Solving Basic Equations Part 1 - Math Antics</p> <p> Solving One-Step Equations Using a Pan-Balance</p> <p> Pan Balance – Shapes</p> <p> How much & how do I know?</p>	<p><i>Algebraic Thinking</i> (Fullerton, 2020)</p> <ul style="list-style-type: none"> What’s missing - Solving for Unknowns (p. 78) Balanced Equations (p. 97) <p><i>Elementary and Middle School Mathematics</i> (Van de Walle, 2022)</p> <ul style="list-style-type: none"> p. 319

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	 Building Thinking Classrooms  Puzzles, Problems and Tasks  Math Applications  Interactive Simulations
Building our Understanding	 Number Talks and Number strings  Progression of Multiplication  Progression of Division	 Coast Metro Math Project  Progression of Fractions  Concreteness Fading	 Spiraling the Curriculum  Week of Inspirational Math  Building Math Fact Fluency
Classroom Assessment	 Coast Metro Math Project	 Island Numeracy Assessment	 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  Coast Metro Math Year at a Glance	 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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