

NUMERACY NUGGETS



Welcome to the SD72 numeracy newsletter!

- **Quick Tips:** Save time and spark innovative ideas.
- **Workshop Updates:** Enhance your numeracy instruction and assessment skills.
- **Resources to Bookmark and Share:** Stay informed on new resources as they become available.

The Numeracy Resource Library can also be found on the 72 learning hub.



NUMERACY RESOURCE LIBRARY



Grade-level resources with curricular connections

RECOMMENDED RESOURCE: NUMBER SENSE BOOKLETS FROM PENNY DROP TEACHING

Developed in BC for Grades K-5

A 20-30 minute routine where students complete one page of a booklet at a "just-right" level.



COMMON FORMATIVE NUMERACY ASSESSMENT

 [Access All Parts of the CFNA \(English and French\)](#)

The CFNA Page includes all parts of the SD72 Common Formative Numeracy Assessment Package

QUESTIONS OR SUGGESTIONS?

Do you have any numeracy wins or news to share? Please reach out to me at the address below.



JESSICA MCCONNELL

District Numeracy Coordinator
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HOW TO ACCESS THE SD72 NUMERACY FRAMEWORK

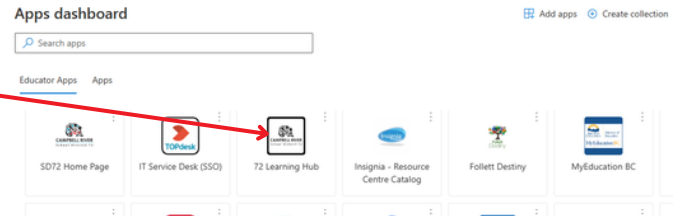
The district Numeracy Framework, Resource Library, and CFNA math assessments for Grade K-9 are housed on the [72 Learning Hub](#).

Use this [link](https://www.72learninghub.ca/72learninghub/viii-common-formative-numeracy-assessment) to access all parts of the CFNA assessment suite, available in English and French. (https://www.72learninghub.ca/72learninghub/viii-common-formative-numeracy-assessment)

Step 1

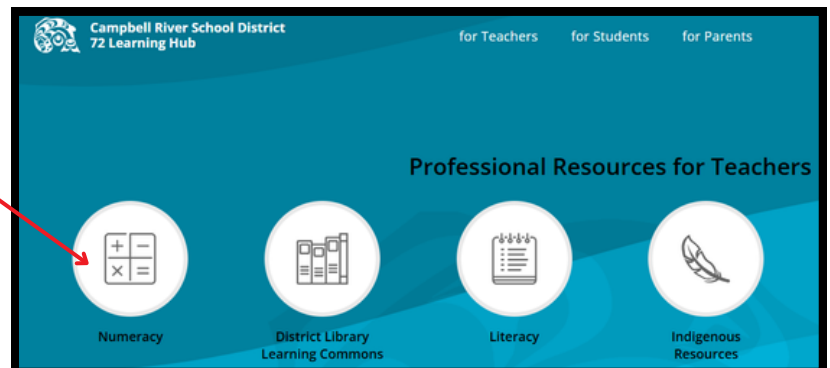
Open the [72 Learning Hub](#) in your Apps dashboard

The Numeracy Framework is located under [Resources for Teachers](#)



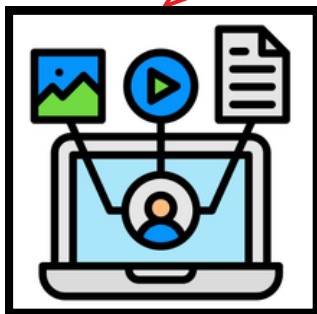
Step 2

Click on the Numeracy button to view the Framework and access other district resources



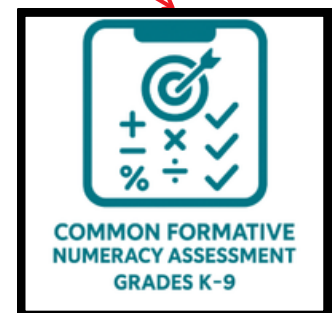
Step 3

Access the Numeracy Resource Library, the CFNA and other resources.



Blue titles are linked to documents and recommended digital resources

✦ [Cross-Curricular Numeracy Progression K-12](#)



THE SD72 NUMERACY FRAMEWORK

Developed in 2024-2025 the numeracy framework outlines 10 key aspects of robust and integrated numeracy instruction and assessment.

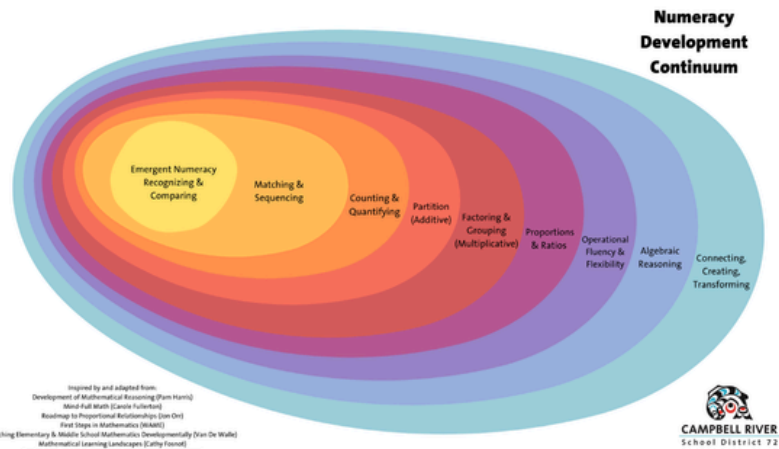
Numeracy

Intro to Numeracy

- I. Authentic & Experiential Contexts
- II. Classroom Culture & Environment
- III. Conceptual Understanding
- IV. Automaticity & Mental Math
- V. Computational (Operational) Fluency
- VI. Mathematical Reasoning & Logic
- VII. Competency-Based Assessment
- VIII. Common Formative Assessment
- IX. Additional Resources (BLMs and digital resources)
- X. Professional Development

Intro to Numeracy

Numerate citizens have opportunities to solve a variety of problems using logic and reasoning. Numeracy instruction in SD72 includes real-world problem solving of in-context problems that are age appropriate and locally relevant. Exploring, developing, and celebrating both traditional and modern ways of integrating mathematical knowledge into our lives connects us to each other, to the past, and to the future.



Each section of the framework contains definitions, elaborations, and related resources related to that topic.

Example: This twist model shows the typical progression that students follow as they become mathematical thinkers.

Starting with a compelling context and connecting understanding to physical, observable things, helps ground learning.

Development of Mathematical Reasoning



CAMPBELL RIVER
School District 72

Math in Context

Experience connected to place, community, and identity

Counting Strategies

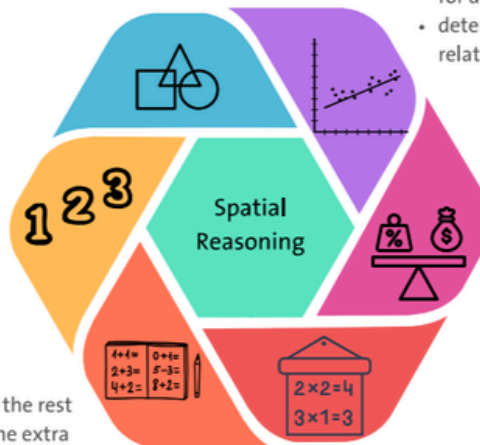
- counting from 1
- counting on by 1
- counting using 1:1 equivalence (fingers, etc.)
- counting groups by counting on
- removing or distributing items 1 at a time

Additive Thinking

- add up to a group of 10, then add the rest
- round up and add, then remove the extra
- subtract to a group of 10, then subtract more
- round up, subtract more, then add back the extra
- skip counting
- repeated subtraction

Algebraic Reasoning

- symbolic logic (words, #s & symbols)
- breaking a process into logical steps



Functional Reasoning

- determine an input/output rule
- determine a logical range of values
- consider the effect of scale factor (rate of change) on a relationship
- consider the initial value or constant for a given relationship
- determine overall trend of a relationship

Proportional Reasoning

- solve proportional problems using multiplication, division, and other logical strategies
- scale up from a base ratio
- use a ratio table
- combine additive and multiplicative reasoning to create equivalent ratios

Multiplicative Thinking

- use known multiples as benchmarks
- multiply by the next group of ten, then remove groups
- use known multiplication facts to make division statements
- multiplication & division by place value

Inspired by Pam Harris' Development of Mathematical Reasoning

HOW TO ACCESS THE SD72 COMMON FORMATIVE NUMERACY ASSESSMENT

The CFNA math assessments for Grade K-9 and all supporting documents are housed on the Learning Hub. Use this [link](https://www.72learninghub.ca/72learninghub/viii-common-formative-numeracy-assessment) to access all parts of the assessment suite, available in English and French.

(<https://www.72learninghub.ca/72learninghub/viii-common-formative-numeracy-assessment>)

Step 1

Click on the bookmarked link

 [Access All Parts of the CFNA \(English and French\)](#)

All parts of the assessment and supporting documents are located on a dedicated page in the framework.

Step 2

Select the grade you teach and click on the > symbol to open the sub-menu

Grade 2 example shown.

Grade 2

[Instructions for teachers](#) Pages 13-15

Assessment (16 questions)

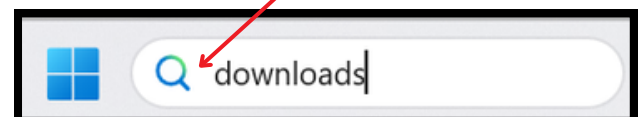
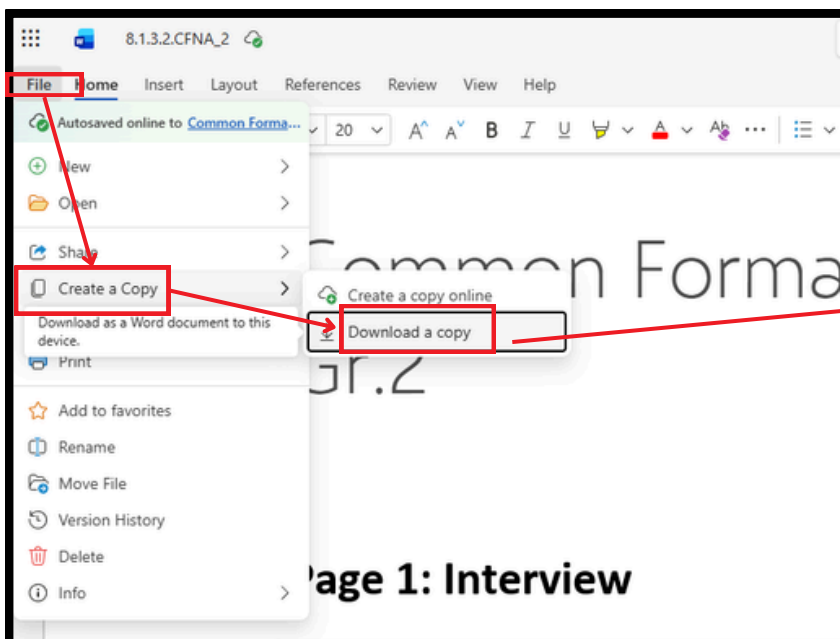
- [English version](#) - download a copy
- [French version](#) - download a copy
- **Addendum:** [Guidance for Primary Teachers \(K/1/2\)](#)
- [Tracking Sheet](#) (Page 3 of linked document)
- [Answer Keys](#) Pages 1-3
- [Instructional Guidance for Grade 2](#)

Step 3

Click on blue titles to view linked documents.

To view and print with correct fonts and formatting, select "Download a copy" from the File menu.

The copy will save to your downloads folder. Use the search bar to locate a file or folder easily.



THE SD72 COMMON FORMATIVE NUMERACY ASSESSMENT RESOURCES

The CFNA math assessments for Grade K-9 and all supporting documents are housed on the Learning Hub. Use this [link](https://www.72learninghub.ca/72learninghub/viii-common-formative-numeracy-assessment) to access all parts of the assessment suite, available in English and French.

(<https://www.72learninghub.ca/72learninghub/viii-common-formative-numeracy-assessment>)

Need more information?

Frequently asked questions, general instructions, and a suggested pacing guide are included.

Click on blue titles to view linked documents.

[FAQS](#)

[General Guidelines](#)

[Pacing Guidelines](#)

Click to view or download

The drop-down menu for each grade includes links to the teacher instructions, the assessment, the keys, and instructional guidance based on results.

Grade 5

Assessment (28 questions)

- [English Version](#) - download a copy
- [French Version](#) - download a copy
- [Answer Keys Pages 12-15](#)
- [Instructional Guidance](#) for grade 5

Additional Resources

- [K-9 Assessment Concept Map](#)
- [Optional CFNA Teacher Reflection Template](#)
- [High Yield Routines for Elementary](#)
- [High Yield Routines for Middle School](#)
- [High Yield Routines for Grade 9+](#)

Additional Resources

An overall concept map for the K-9 assessments is provided.

High Yield Routines for Elementary, Middle and High School (PDFs with links)

Numeracy Middle Years 6-8

High Yield Routines that are classroom ready:

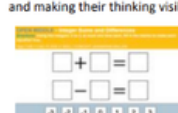
[Esti-Mysteries](#)

Highly engaging and popular math routine for practicing reasonable estimation, math vocabulary, and pattern recognition.



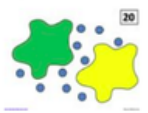
[Open Middle](#)

Inspired by Dan Meyer, but carried through by some #MTBoS pioneers, dozens of K-12 tasks where students enjoy reasoning and making their thinking visible.



[SPLAT](#)

Dozens of powerful number sense images from [Steve Wyborney](#), along with suggestions for using them on Steve's website.



SD72 Data Entry & Analysis with eInsight

Data-driven decision making in education uses student and institutional data to guide instruction, improve learning outcomes, and optimize resource allocation. This involves collecting, analyzing, and applying data to inform decisions at all levels, from classroom instruction to school leadership and policy formulation.

eInsight

SD72 has partnered with eInsight to create a data management system that connects quantitative data and qualitative data which can help identify trends, monitor progress, and implement targeted support.

Access the eInsight platform through the “My Apps” Menu



SD72 eInsight

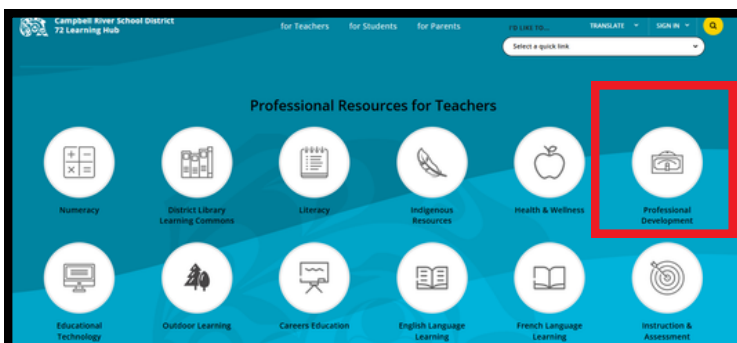
Running Records

eInsight automatically syncs with myEd, including demographic data.

CFNA progress data can be entered by student or by class

Support for Teachers

Support is available for data entry and analysis.



Collaboration

Grants are also available for Collaborative Learning Teams related to numeracy instruction & assessment.

THE NUMERACY RESOURCE LIBRARY

Kindergarten
Grade 1
Grade 2
Grade 3
Grade 4
Grade 5
Grade 6
Grade 7
Grade 8
Grade 9
Numeracy - Games
Numeracy - Assessment
Numeracy - Instructional
Routines
Numeracy - French Resources
Numeracy - Literacy
Connections

A curated collection of high-quality tools to support math teaching and learning.

The Numeracy Resource Library brings together:

- Digital numeracy resources for interactive and engaging learning
- Locally developed instructional and assessment materials designed to reflect our learners and community
- Curriculum-aligned lessons and activities ready to use in your classroom
- Experiential, interdisciplinary, and culturally affirming resources

Option 1

Navigate to any page using the menu

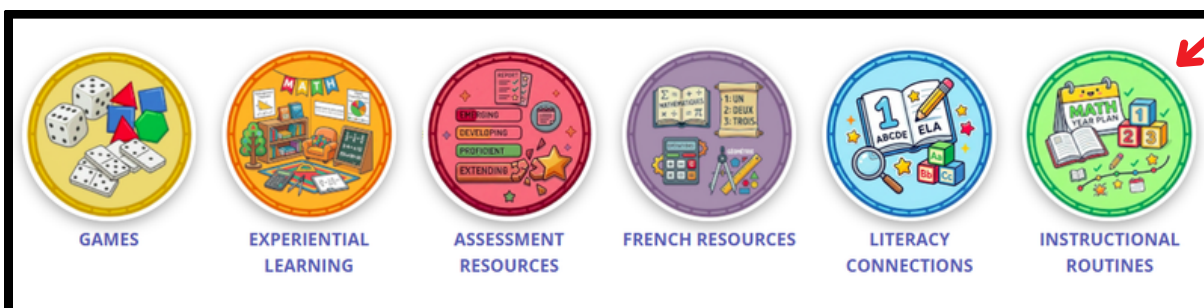
Option 2

Key resources are arranged by grade level.

Click on any button to open the page.



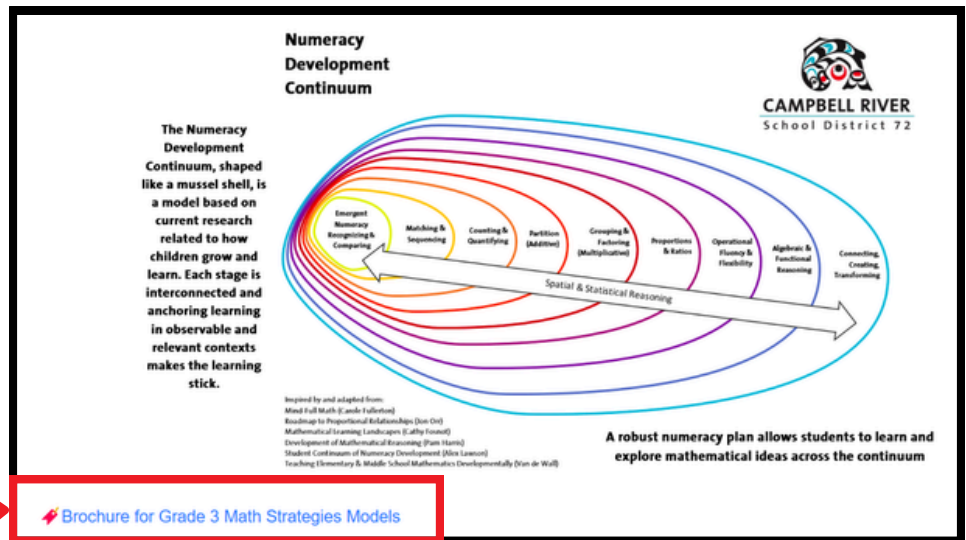
In addition to the grade-level resources, teachers can access games, place-based lessons, assessment tools, and templates for instructional routines (like the SNAP)



THE NUMERACY RESOURCE LIBRARY

Each grade-level page header shows the SD72 shell model of the numeracy development continuum.

A printable brochure for parents is also included near the top of the page.
Grade 3 example shown.



Resources are organized in a table by content and curricular competency for that grade level

A sample year plan is also included for each grade level.

The 4 curricular competency areas (shown in red) are the same for Math K-9 in BC. Strategies and resources that can help students develop each competency are listed in the appropriate column.

	Curricular Competencies			
	Understand & Solve (activate curiosity, play, practice, recall)	Communicate & Represent (use vocabulary & visualize)	Reason & Analyze (Use logic, infer missing information, use & interpret patterns, compare, equate)	Connect & Reflect (Consolidate understanding, think creatively, connect ideas, seek challenges)
Numeracy 3 Year Plan.pdf Common Models in Grade 3 Math Flipbook Pages (Masters to print or project)	Concrete Models - Base Ten Blocks - Cuisenaire Rods (TTMAKT-0189) - Lego Bricks (SSKT-0371) - Pattern Blocks Virtual Manipulatives Pips Brain Game	Pictorial Models (1:1) - bar and pie models of unit fractions - Tally Marks 100-Chart - Money (PNW Money Masters) - Canadian Dollars Dots and Boxes Game	Symbolic Models - Balance Scale Puzzles - Number Bonds Puzzles - Games with Cards, Money, Trades - Currency coins and bills (1: many)	Literacy Connections Mathology Little Books: Grade 3 (MAKT-0400) Financial Literacy Financial Literacy Kit (MAKT-0401 and MAKT-0406)

Key resources are identified with a red bookmark.

Blue titles are links to documents and digital resources

Kits available from the Ed-Centre are listed with their call number.

ADDITIONAL RESOURCES TO EXPLORE

Click on any button to open the page

Games

A selection of games for building numeracy and logic skills, sorted by grade and skill development area



GAMES



EXPERIENTIAL
LEARNING

Experiential Learning

Recommended resources for developing connections to place, language, culture, and community

Assessment

This page includes formative assessment resources and guidance for number sense, problem solving, and communication (ie. the CFNA and SNAP)



ASSESSMENT
RESOURCES



FRENCH RESOURCES

French Resources

French-English math glossaries and resources to support numeracy instruction in French, sorted by grade bands

Literacy Connections

Resources to support the use of stories and multiple literacies to introducing new mathematical ideas in the context



LITERACY
CONNECTIONS



INSTRUCTIONAL
ROUTINES

Instructional Routines

Examples of Warm-Up, Fluency, Thinking and Assessment Routines, sorted by grade band. includes a selection of "Math Minutes" Videos

MATH TALKS & FINANCIAL LITERACY

New Resource from YouCubed

Resources to support the use of stories and multiple literacies to introducing new mathematical ideas in the context

A TASK TO TRY
HOW DO YOU SEE IT?

Bring creative mathematical discussion into your classroom with a collection of our favorite lesson starters: Dot Talks, Number Talks, Shape Talks, Data Talks, and Art Talks.

With ideas for grades K–12, this is a resource you can return to throughout the year.

Dot & Number Talks 	Data Talks 
Shape Talks 	Art Talks 

Free Financial Literacy Resources from RBC

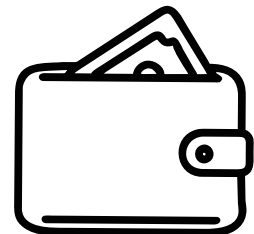
NEW Canadian financial literacy resources from Everfi:

- **Vault (Grades 4-6):** Introduces students to budgeting, saving, spending, and financial decision-making.
- **Future Smart (Grades 6-8):** Helps students explore financial responsibility, career pathways, and money management skills. Over 4 hours of online content!
- **Save Up (Grades 6-8):** Builds foundational knowledge around saving, goal setting, and smart financial choices.

Check out the overview slides below.

[RBC resource overview slides](#)

[RBC resource one page overview](#)



Everything is free and set up takes less than 3 minutes.

Teachers can get started by heading to

www.everfi.com/newteacher or email k12support@everfi.com or jgrisanti@everfi.com for assistance.