

Framework for  
Enhancing  
Student  
Learning

**Numeracy Series**

# Framework for Enhancing Student Learning Numeracy Series



## Goal

- ◆ To improve students' skills and confidence in numeracy

## Target

- ◆ To increase numeracy results through professional development, to explore the potential of a common numeracy assessment as well as to expand your understanding and use of the K-9 proficiency scale.



# Framework for Enhancing Student Learning Numeracy Series



## Strategies

- ◆ To examine numeracy resources and how they can best be used with the BC Curriculum to improve confidence for struggling learners.
- ◆ To examine the potential of developing a common Numeracy assessment along with consistent use of the proficiency scale to guide instruction.





# Framework for Enhancing Student Learning Numeracy Series



## Strategies

- ◆ Continual support and tracking of students who are not meeting grade-level numeracy targets
- ◆ Professional Development in supporting numeracy across the curriculum
- ◆ Develop parent resources or information packages to further support numeracy confidence.



# Framework for Enhancing Student Learning Numeracy Project



An opportunity for elementary school teams  
to participate in a Grade 3 and 4 numeracy inquiry project.

## **Learning Team # 1– Numeracy Project**

Team Leads: Kim Froehler & Ryan McKenzie/Maxine Malmberg

Schools involved: JEJSS and RMES (9 – teachers/admin from grades 2 - 4)



# Framework for Enhancing Student Learning Numeracy Project



## **Goal:**

Students will meet or exceed numeracy expectations for each grade level.

## **Purpose:**

To provide time for collaboration and discussion related to this numeracy goal, while exploring and providing feedback on the math resources for this project.





# Framework for Enhancing Student Learning Numeracy Project



## **Progress:**

Working sessions were facilitated by Kimberley Mastromartino from Pearson Education where the Mathology.ca platform was reviewed. In addition to the tour of Mathology, practical ideas were shared on how to use the materials in the classroom.

Supplementary resources from both Pearson and Scholastic's Math Place were also examined during this collaborative time.



# Framework for Enhancing Student Learning Numeracy Project

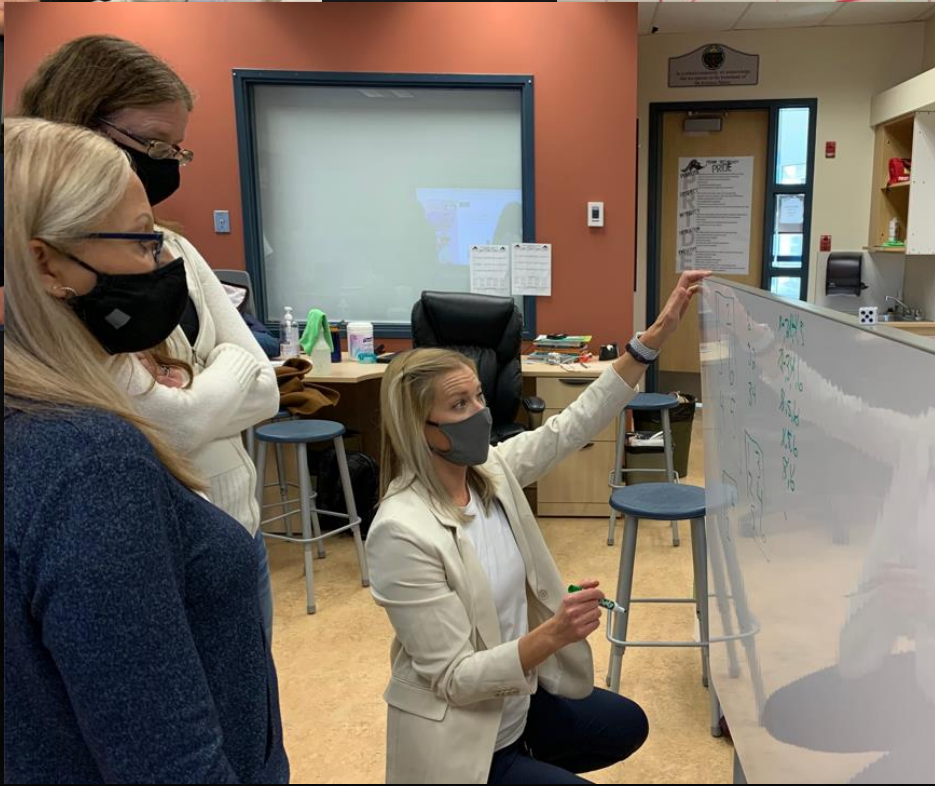
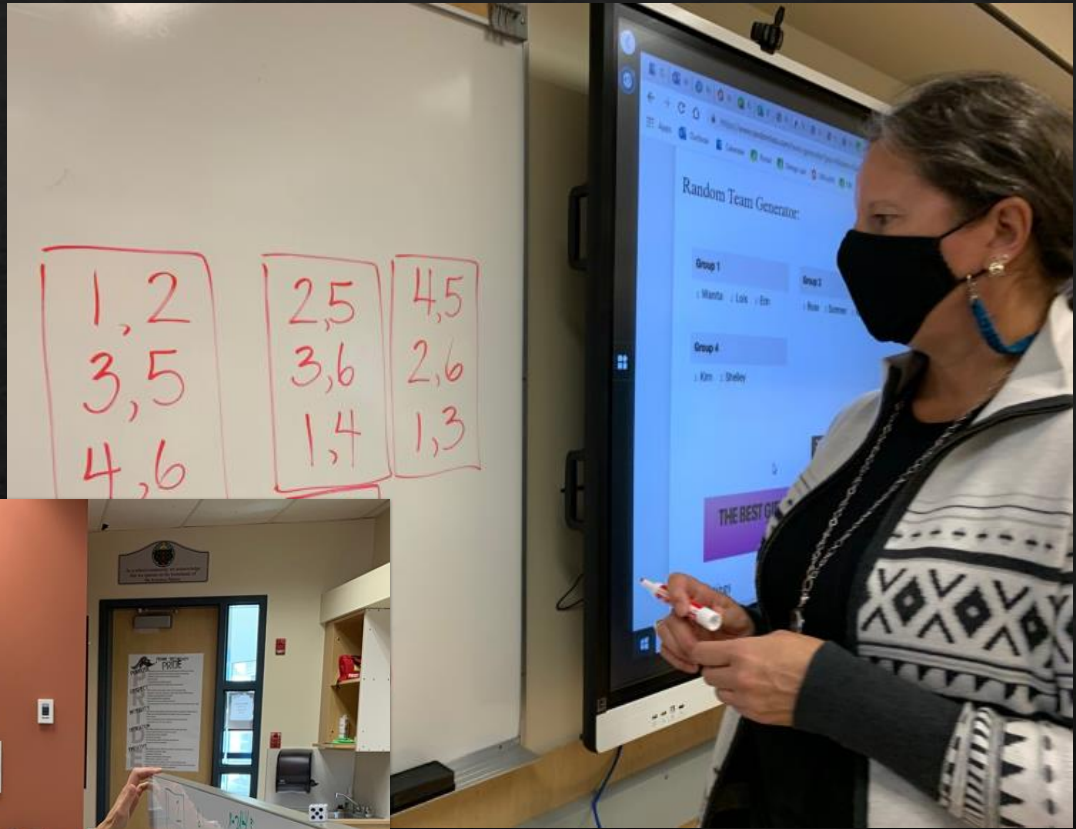
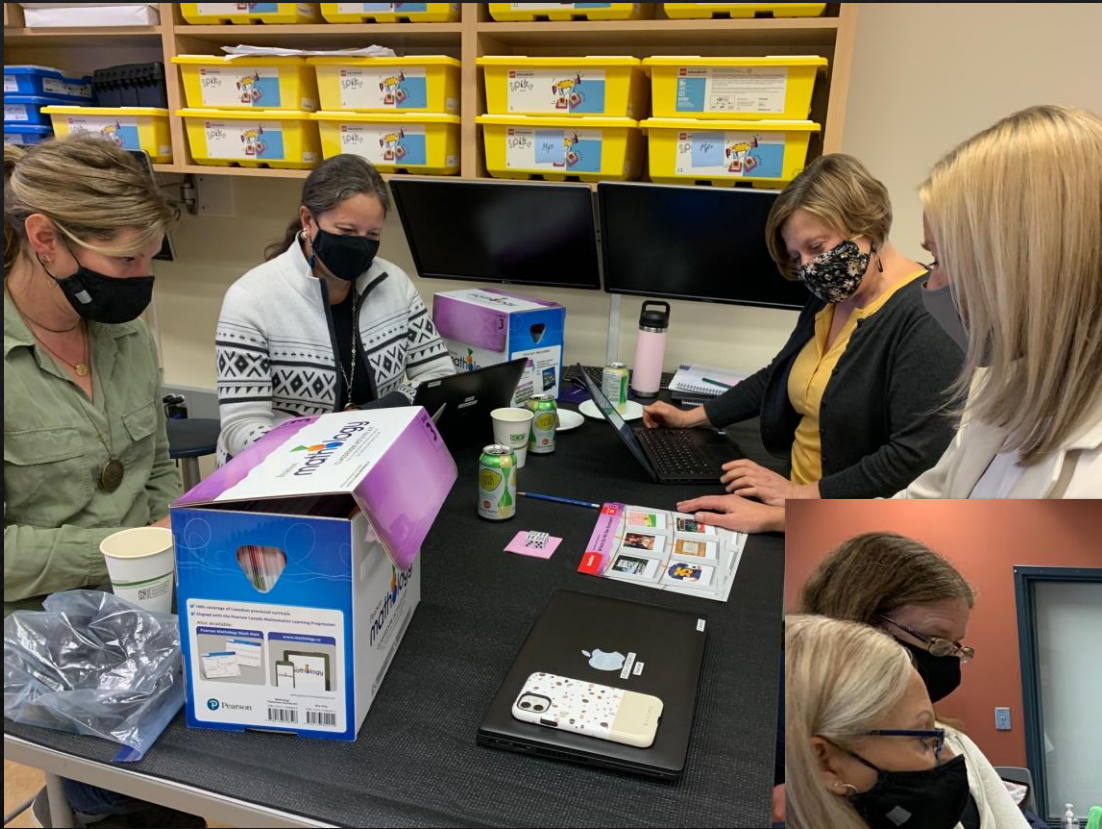


## Update on working sessions:

- ◆ Time to collaborate, explore and provide feedback
- ◆ Plan lessons for their classrooms and continue to explore ways to support their students
- ◆ Experience and participate in some “Thinking Classroom” activities.







# Framework for Enhancing Student Learning Numeracy Project



## **Future sessions:**

- ◆ Further examination and feedback of resource material
- ◆ Examining the purpose and possibilities of developing a common numeracy assessment.





# Framework for Enhancing Student Learning Numeracy Project



A huge thanks to our teachers of transformative learning for their passion and expertise in facilitating this group in their numeracy journey

Thank You!



# Common Numeracy Assessment & Performance Standard Pilot



## **Learning Team # 2 – Common Numeracy Assessment and Performance Standard Pilot**

Team Leads: Bryan Faucher, Jaslene Atwal, Erin Jones & Erin Hay

Schools involved: SSS, FJMES, ESS, FSS, PMS, IDES, JESS and TMRES....more coming soon



# Common Numeracy Assessment & Performance Standard Pilot



## Common Numeracy Assessment Trial Results

- ◆ Identified groups of students who struggled in traditional testing but shone in a thinking classroom
- ◆ Identified groups of students with strong core math skills who lacked in communicating their logic and problem solving
- ◆ Measured core skills
- ◆ Measured numeracy with the new ministry-mandated framework





# Common Numeracy Assessment & Performance Standard Pilot



## Next Steps:

- ◆ Continue to work on materials targets towards the grade 5 level
- ◆ Draft the next version of the grade 7, 8 & 9 exams
- ◆ Two complete common assessments of foundational math skills
- ◆ A data set across the district and refined with the feedback of our teachers
- ◆ Proficiency standards deliverables





# Framework for Enhancing Student Learning First 13 Days of Math



## **Learning Team No. 3 – 13 Days of Math**

Team Leads: Kathy Conlin, Ami Barras and Kim Froehler

**Goal:** To create number routines and non-curricular tasks to increase engagement in mathematical thinking, build a positive class culture and expose teachers to a variety of teaching strategies.

**Target:** Grades 1 - 7



# Framework for Enhancing Student Learning First 13 Days of Math



## **Update:**

The group is exploring the 13 Days of Math website that offers user-friendly PowerPoints for each grade and accompanying teacher and assessment guides of number routines, inspirational videos and numeracy tasks to increase engagement in mathematical thinking while fostering a growth mindset. The tasks will serve as an assessment for learning opportunities. This project will be presented at the April RSA day.





# Framework for Enhancing Student Learning Book Studies

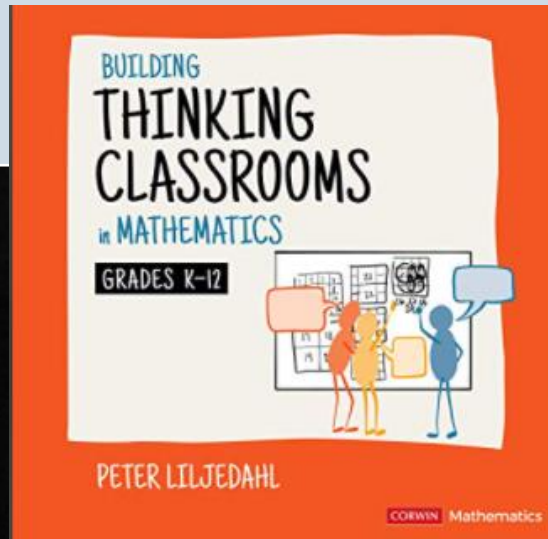


## Building Thinking Classrooms

### Team Leads:

Sean Sinclair & Ryan McKenzie

13 participants

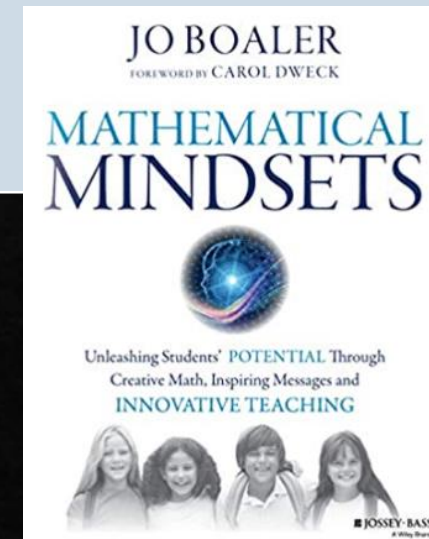


## Mathematical Mindsets

### Team Lead:

Kathy Conlin

6 participants





# Framework for Enhancing Student Learning Book Studies



## **Peter Liljedahl's 'Building Thinking Classrooms'**

- ◆ The group was able to meet in person back in November at the KLC before moving forward on a virtual platform.
- ◆ Groups tried the same activities with their classrooms and shared the outcomes
- ◆ Discussed classroom limitations and solutions to improve them



# Framework for Enhancing Student Learning Physical Literacy



Candace Ivanco has been teaching Physical Literacy at Kootenay Orchards Elementary and at TM Roberts Elementary. She is busy creating new activities to utilize the huge space in the gym to move around in. She will continue with these activities and then incorporate some subtraction activities as well.







PIC COLLAGE







# Framework for Enhancing Student Learning Numeracy projects



These projects would not have been possible without the passion, enthusiasm and dedication of all project leads and participants.

*Thank you all!!*

