

CELEBRATING NUMERACY IN SCHOOL DISTRICT # 46

Presented on behalf of the SD 46 Numeracy Committee

Mr. Glen Smith – Committee Chair



SD 46 Numeracy Committee

- Was established 4 years ago in February 2016
- Main purpose is to support educators in our district to enhance overall student learning and achievement in mathematics
- This is based on the School District 46

Strategic Plan: 2019 – 2023 which states,

“Our students will be numerate. They will have the skills and tenacity to interpret and apply mathematical understandings in flexible, functional, and creative ways.

Goals of the Numeracy Committee:

- 1) To support teachers in their professional development to foster a positive mathematics culture.

Goals of the Numeracy Committee:

2) To improve students' ability to understand and communicate mathematical skills and concepts.

What is Numeracy?

Numeracy is defined by the B.C. Ministry of Education as ...

“the ability, willingness and perseverance to interpret and apply mathematical understanding to solve problems in contextualized situations, and to analyze and communicate these solutions in ways relevant to the given context.”

**** Numeracy and Literacy are pillars of the curriculum ****

We are ALL Numeracy and Literacy teachers.

* As a district Numeracy Committee how can we... ?

- promote a Growth Mindset with our students to celebrate learning - including mistakes
- create opportunities for students to explore their own Mathematical interests & passions

(ie. a Science Fair with a Mathematical focus;
coding & robotics)

* As a district Numeracy Committee how can we... ?

- enhance experiential learning and infuse more Indigenous culture into Mathematics (ie. weaving to enhance pattern recognition and application)

* As a district Numeracy Committee how can we... ?

- further promote the Core Competencies from the new BC education curriculum to enhance our Mathematical vision: Communication, Critical Thinking, Creative Thinking, Positive Personal & Cultural Identity, Personal Awareness and Responsibility, and Social Responsibility
- better communicate our role as a numeracy committee with School District 46 (we created a district newsletter last fall)

* As a district Numeracy Committee how can we...?

- facilitate “expert” Math instructors from around B.C., who are well-versed in the new education curriculum, to provide engaging in-service training at the Primary, Intermediate & Secondary levels
- Promote Math CAMPS = Collaborating About Mathematics
- Sessions with presenters Sandra Ball (Primary), Selina Miller (Intermediate), and Marc Garneau (Secondary)
- Take on leadership roles at our schools and promote Professional Development opportunities like the Jan 6 Numeracy session on *Box Cars and One-Eyed Jacks*. Our MPES team attended together.

What can you do as engaged parents and district representatives?

- Talk to your child about their current experiences in Math
- Encourage them to remain positive/resilient and brainstorm ways to support them if they are struggling
- Stay in contact with your child's teacher(s) and ask them how you can be supportive at home
- Promote numeracy with your PAC's, DPAC's, Committees etc.
- Practice and review basic skills at the Elementary level (ie. doubles, doubles +/- 1, make it 10, skip counting & times tables,
- Play math games (ie. 21, Crib, Snap, Draw etc.)

To become a mathematical problem solver...

- we cannot just think in a linear manner and memorize the algorithm/formula/steps. There are many ways to get to the correct answer, and there may be more than one possible answer, so we must provide multiple opportunities for students to experiment, discuss, collaborate and demonstrate their learning process

*** Now, let's have some fun together and put our Numeracy skills to work with this Elementary Pattern Block Problem

Professional Development

— & Mentorship —

2019/2020

Professional Development

is...

Think about and describe one of your best professional learning experiences.

SD46 Professional Development Days

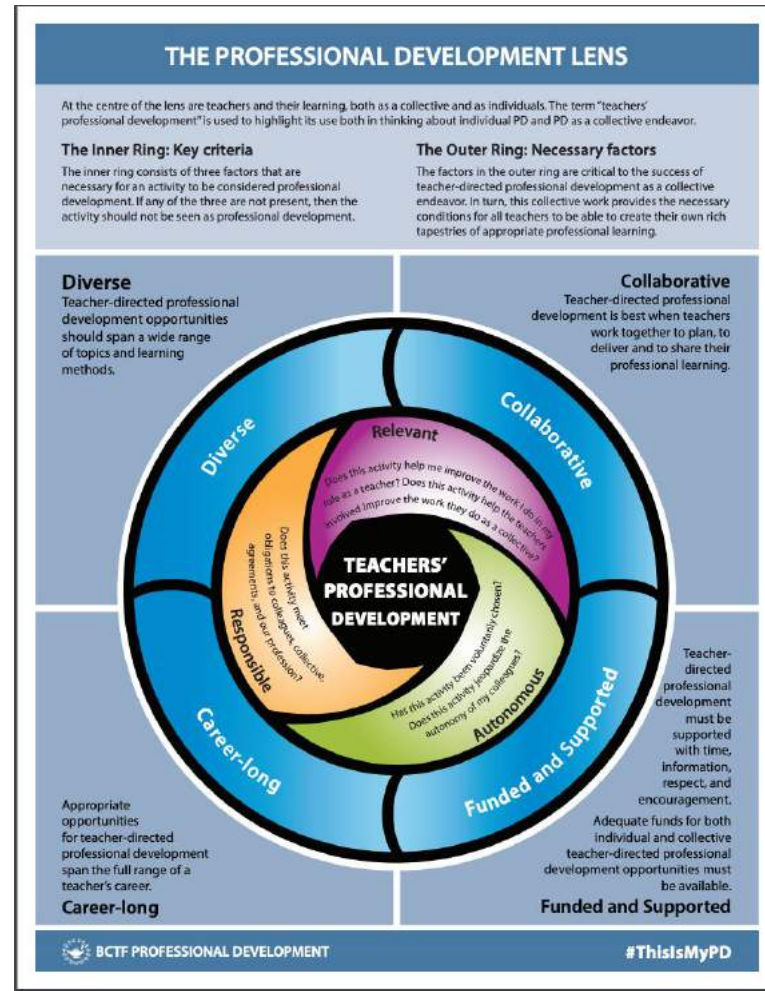
- ❖ **5 days within the school calendar year belong to teachers. This is time for teachers to choose the direction, intention and plan for their professional learning.**
- ❖ **Teachers requested these days and bargained for them.**
- ❖ **Included in the 5 days is the Provincial PD Day in October and the SCTA District Day in February**

PD Reps are at each school

The PD Lens helps to guide teachers in their professional development choices and goals.

Through School PD Committees, PD Reps have the opportunity to collaborate with colleagues and their administrator(s) to organize and number of professional development opportunities.

Each school gets \$50/1.0 FTE for School PD Committee Initiatives.



Supporting PD through Individual and Group Goals

Individual PD Support- \$467.00/1.0 FTE

**Local Specialist Associations (LSA groups) Support-
10% of the total PD budget= \$17,000/year**

**Mentorship Support- \$30,000 (\$15,000 from the SCTA
PD Budget and \$15,000 from the district budget)**

SCTA Website Links

[Forms](#)

SD46 District Pro D Day

Friday, February 14th @ Davis Bay Elementary School

**TEACHING TOOLS & RESOURCES FOR:
ENVIRONMENTAL EDUCATION, PLACE-BASED
LEARNING & CLIMATE AWARENESS**

Breakfast & Refreshments

8:00-9:00 in the DBES Gym

Enjoy breakfast wraps, baking and fruit from **Gourmet Girl**.

Coffee & Tea from **Starbucks**

Opening (9:00-9:50)

Welcoming

Climate Change 101 Presentation

Youth Climate Action Committee Message

Workshops

Morning Workshops are from 10:00-12:00

Afternoon Workshops are from 1:00-3:00

Lunch

Lunch will be provided. Visit resource tables set up by local enviro.ed. organizations.

"How much do you know about climate change?" **Play Kahoot** to win many great prizes



Reduce

PARKING IS LIMITED!! Enter your name in a draw for prizes if you carpool, bike, walk or take public transit to this event.

Reuse

Please bring a reusable mug for refreshments.

Register

Workshops have limited space and some require you to be dressed for the outdoors and/or bring your own technology. To guarantee your spot in the workshops of your choice, please register with Pro D Chair, Melissa Bell mbell@sd46.bc.ca by Feb 7th.

After Feb. 7th, you can register the morning of Feb. 14th at the registration table in DBES.



Morning Workshops 10:00-12:00

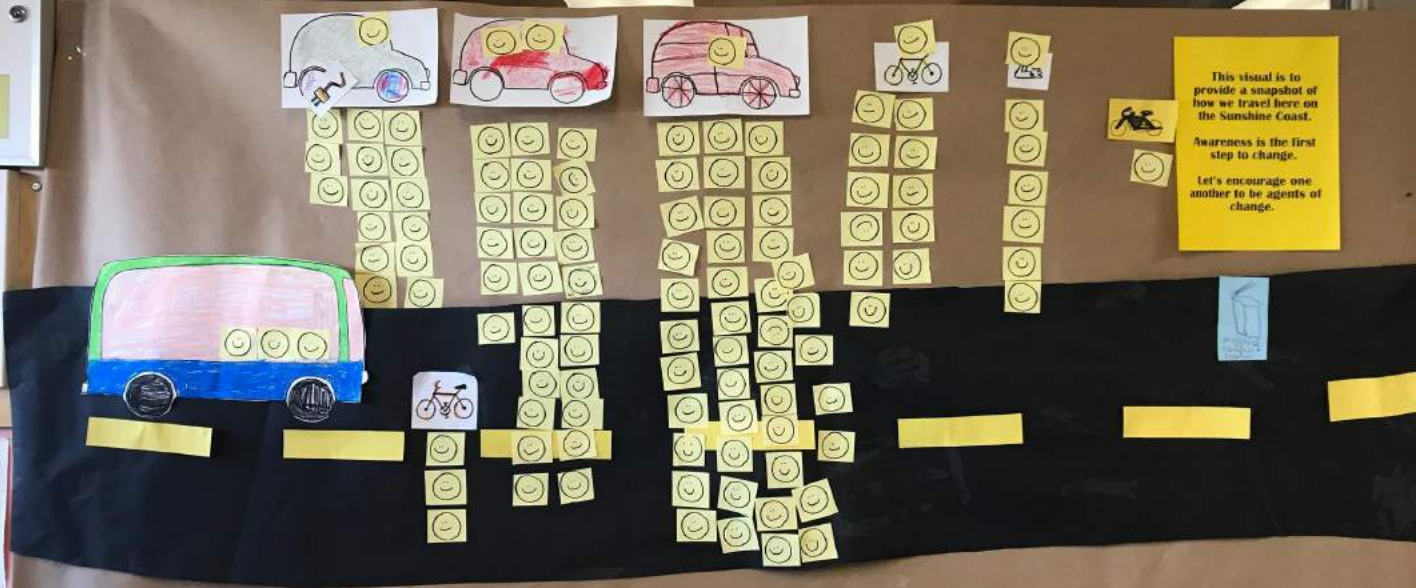
- #1 SET BC- Digital Tools to Promote Project Based Learning (K-3)
- #2 Integrating Greenhouses and Community Gardens Throughout the Curriculum- *Stacy Friedman* (K-8)
- #3 Science World- Computational Thinking Across the Curriculum (Secondary Focus)
- #5 Creating Climate Heroes- BCTF Workshop- *Jonathan Dyck*, President of EEPsA (K-8)
- #6 Beyond Recycling: Educating in a Time of Climate Emergency *Laura Pierson*, SFU Professor (Gr 6-12)
- #7 Introduction to Modelling for 3D Printing: Hands-on Workshop Using *TinkerCAD* - *Diane Mueller* (Gr 4-12)
- #8 Get Outdoors- Wild BC- Engaging Elementary students in outdoor, experiential based learning- *Johan Stroman* (K-8)



Afternoon Workshops 1:00-3:00

- #9 Science World- Coding Without Computers (Gr K-5)
- #10 Teaching Green for Secondary Teachers- BCTF Workshop- *Jonathan Dyck*, President of EEPsA (Gr 7-12)
- #11 Forest Walks for Connection to Self and Place Promoting Wellness and Place-Based Learning. An Indigenous Education focus, with educators *Rita Poulsen* and *Kristi Hagviste* (All Ages)
- #12 Planning for Outdoor Adventuring and Learning: Showcasing EQ3 Online Atlas- *Jamie Mani* (Intermediate & Secondary Focus)
- #13 Energy Matters- Climate Change & Energy- Learning, Local Leaders and Action- *Johan Stroman* (Gr 5-10)
- #14 Local, Land-Based Learning with the *Nicholas Sonntag*, Marine Education Centre and *Ruby Lake Lagoon Centre*. *Kinesthetic* Marine Ecosystem game and other hands on activities. (Gr. 2-7)
- #15 Garden Bed Construction with you students: Hands-on workshop building different styles of garden bed. *Ted Chisholm*, Sunshine Coast Community Schools (All ages)
- #16 The Art of the 100 Meter Field Trip - *Chael MacArthur*, Sea to Sky Outdoor School (Elementary Focus)





This visual is to provide a snapshot of how we travel here on the Sunshine Coast.

Awareness is the first step to change.

Let's encourage one another to be agents of change.

AUTOMATIC DOOR



PRESS SWITCH



2020/2021 SCTA PD Focus:

Staff and Student Wellbeing

LITERACY/ NUMERACY

- Summer Institutes:
 - Primary: 2 day summer institute for new teachers - to support a balanced primary literacy program
 - Intermediate: 1 day institute for new teachers - to support a balanced intermediate literacy program
- Collaborating About Literacy Support 'CARE' - Elementary
 - Lori Jamison - a focus on writing - A 4 session series was offered last year
 - Adrienne Gear - a focus on communication, critical thinking and engaged citizens - the first of 3 sessions has been held.
- Literacy in Secondary Teaching 'LIST' - Secondary
 - Faye Brownlie - worked in our district last year (and is continuing this year) - with a focus on grade 8 wide assessment and supporting inclusive literacy practices with links to the core competencies.
- Foundations Phonological Focus - Two workshops were held last year, and we launched a district assessment designed to support the foundations of literacy.
- SET BC Series with Classroom Librarians - 3 part series with Teacher Librarians on using technology to support Diverse Literacy Needs. This will be continued this year.
- Math CAMPS - Collaborating About Math Programs' - These series have taken place in Primary & Intermediate last year, and this year we have launched the Secondary CAMP-S series
- Literacy Through a Numeracy Lens - Secondary - focus on the Graduation Literacy Assessment
- Non-Instructional Day Professional Learning:
 - Elementary focus: Uncovering the Core Competencies with Kelsey Keller
 - Secondary Focus: Literacy Through a Numeracy Lens -Part 2
- Celebration of Authors, Books & Community - Author Visits: Authors visited all of our schools last year to support student learning through our partnership with Jane Davidson
- Literacy Week Celebration - Charlotte Diamond had two shows supported by the Sunshine Coast Community Literacy Council.
- Story Workshop Collaborative - 14 educators signed up for the on-line Story Workshop series through Opal School.
- 'Reading Committee-2-Go' - offers direct collaborative literacy support for teachers.
- 'The Joy of Reading' - Three sessions with Vancouver Kidsbooks were offered last May for primary, intermediate & secondary

STUDENT SUPPORT SERVICES

- Mental Health First Aid
- Speech & Language Workshop
- CPI Training
- Inclusion for All Learners
- CPI Refresher Training
- Positive Discipline
- Personal Safety/ Sexual Abuse and Exploitation
- EASE Workshop-Primary/ Intermediate
- VTRA: Violence and Threat Risk Assessment Training
- Out Loud with Brian Gidinski (SOGI: Bringing the Curriculum out of the Closet)
- Pat Miranda - Held a session on 'Inclusion' for our entire district

INDIGENOUS EDUCATION

- Cedar Bark Harvesting and Weaving workshop
- Salish Wool Weaving workshop
- Drum making workshop
- Indigenous Languages Revitalization (group travelled to Hawaii)
- Blanket Exercise facilitation workshop
- "Understanding The Village" workshop (residential school experiential workshop)
- Indigenous harvesting, gathering and preparing medicinal plants - workshop
- First Peoples Principles of Learning - pro-d workshop for teachers as well as year long sessions with Ed Leadership group
- Tipi raising - hands-on workshop
- Culture Baskets - what is in them and how to present the baskets to students
- Why Indigenous Literatures Matter/Teaching First Peoples English Courses workshop
- First Nations Education Steering Committee - conference on Indigenous Languages
- Acknowledgement and Equity - sessions with Ed Leadership group
- Train the Trainer - FNEsc Learning Resources and How to Use them
- Where Am I on the Journey? - self assessing confidence with Indigenous Curriculum workshops with various schools as well as a session with the Ed Leadership group
- BCTF Education for Reconciliation workshop
- First Nations Education Steering Committee - Annual Indigenous Education conference

CAREERS

- Pro D for connecting ADST woodworking with Careers and Trades Education.
- District Day Pro D session on Automation with an activity for the classroom. Automation is using gears to make parts move. This is related to careers in the trades area.
- Attendance of the DoI and two teachers at the Career Education Society conference

SCHOOL DISTRICT 46 - SUNSHINE COAST

Our staff will be fully supported for the work that we ask of them and that they ask of themselves through research-based professional development



- Changing Results for Young Children - 5 part series for teachers and Early Childhood Educators was offered, focusing on Social & Emotional Well-being in the Early Years.
- Early Learning Framework - Learning sessions on the revised Early Learning Framework for StrongStart.
- Pedagogy of Play - Sessions took place in Burnaby and on the Sunshine Coast for Early Childhood Educators and primary teachers
- Designing a Playful Early Years Program - for Kindergarten and Early Childhood Educators
- Strategies Fair - Early Childhood Educators and primary teachers are supported by a number of community experts on supporting the diversity of learners.
- Reggio Emilia International Study Tour- 2 School District Staff participated.

LEADERSHIP:

- Teacher in Charge Training: teachers and principals came together to review practices and procedures.

TECHNOLOGY:

- Website Training
- New Teacher Laptop Training
- MyEducation Training
- Excel Training
- BCERAC Conference
- Baragar

- Read & Write for Google Chrome Workshop
- Accessibility & Digital Tools to Support Learners
- Coding with Scratch or Sphero
- Takes A Community To Raise A Child: Inclusion
- Google Launch SD 46
- Supporting Literacy: Technology & Exemplary Practice
- Digital Learning In the Primary Classroom
- Supporting Literacy: Technology & Exemplary Practice Part 2
- Digital Text Available for Learners in SD46
- Supporting Literacy: Technology & Exemplary Practice Part 3
- ADST Hands On Workshop
- Read & Write for Mac/Chrome
- Built In Accessibility Features for Technology Used in SD 46
- Supporting Literacy: Using Technology in the Library Commons

EARLY YEARS

LEADERSHIP/ TECHNOLOGY

INCLUSION TECHNOLOGY