



Date: March 20, 2024 **Agenda Item:** 8.2

To: Board of Trustees

From: Shawna Warren, Superintendent

Originator(s): Jonathan Konrad, Deputy Superintendent, Education Services
Shannon Campbell Requa, Director, Education Planning

Governance Policy: [Policy 225: Role of the Board](#)
[Policy 700: Superintendent of Schools](#)

Additional Reference: [AP805: Assessment, Evaluation & Reporting Student Achievement](#)

Assurance Domain: Student Growth & Achievement
Learning Supports
Local & Societal

Superintendent Leadership Quality Standard (SLQS)

SLQS Competencies ([SLQS](#) / [Board Policy 700](#)):

Modeling Commitment to Professional Learning
Visionary Leadership
Leading Learning

Subject: **Numeracy Report**

Purpose:

For information.

Background:

Alberta Education defines numeracy as the ability, confidence and willingness to engage with quantitative and spatial information to make informed decisions in all aspects of daily living. A numerate individual has the confidence and awareness to know when and how to apply quantitative and spatial understandings at home, at school, at work or in the community. The Numeracy Report provides an overview of the numeracy intervention processes currently in place across Sturgeon Public Schools. The report includes current results reporting to support an understanding of the requirement for intervention.

Administration is prepared to respond to questions at the March 20, 2024, Public Board meeting.

Attachment(s):

1. Numeracy Intervention and Support in Sturgeon Public Schools.



Numeracy Intervention and Support in Sturgeon Public

Numeracy Assessments in 2023/24

The numeracy screening assessments are a set of activities that help teachers see how well their students understand numbers, basic math operations, and proportions. These tasks are meant to match what kids typically learn in grades 3 to 6, but they are not tests based on the curriculum. They use the Alberta curriculum as a guide to make sure the tasks cover what students should know, but it is expected most students do at least as well as the minimum standards.

Alberta Education Numeracy Screener

Students in grades 1-4 complete the Alberta Education Numeracy Screener in September, January and May. This screener assesses a broad range of number skills in students from early verbal counting to arithmetic fluency to address early gaps in number knowledge.

Math Intervention/Programming Instrument (MIPI)

Students in grades 5 to 10 complete the MIPI in September. It is a standardized math test used to evaluate a student's understanding of the Alberta mathematics curriculum taught at the previous grade level. Heat mapping can be used to understand the general strengths and areas of growth for a class.

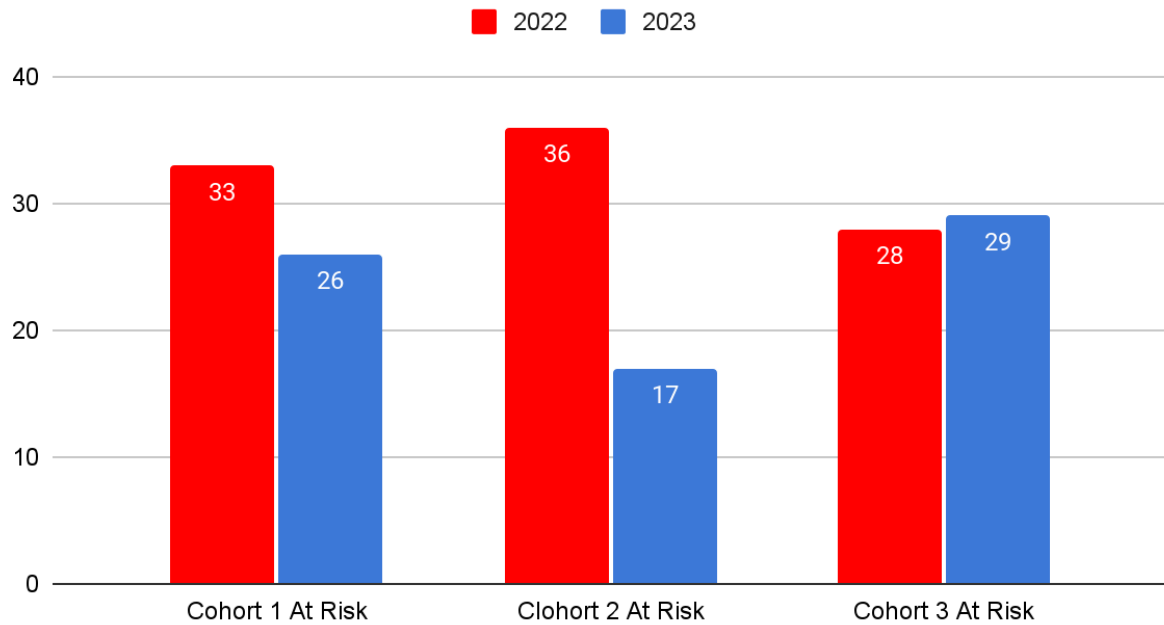
English - Alberta Education Numeracy Screener

	Gr 1 % At Risk	Gr 2 % At Risk	Gr. 3 % At Risk	Gr. 4 % At Risk
September 2022		36	28	n/a
September 2023		26	17	29
January 2023	33			
January 2024	18			
	15 % improvement	10% improvement	11% improvement	Did not screen all students in 2022





Cohort % of Students at Risk



Learning Interruption Grant - Numeracy Intervention

For the 2023/24 school year, Sturgeon Public Schools (SPS) received just over \$100,000 through the Learning Interruption Grant. With this money, SPS hired three Literacy/Numeracy Intervention teachers to provide daily small group instruction for up to 5-6 weeks to grade 4 and 5 students in a pull-out model. Students are chosen for this extra support based on numeracy screening data and classroom teacher recommendations.

French Immersion - Alberta Education Numeracy Screener

	Gr 1 % At Risk	Gr 2 % At Risk	Gr. 3 % At Risk	Gr. 4 % At Risk
September 2022		58	28	n/a
September 2023		56	25	10
January 2023	61			
January 2024	35			
	26% improvement	2% improvement	3% improvement	Did not screen all students in 2022





Teaching and Leading: Implemented Support for Improved Math Instruction

- Purchased Mathology or Mathologie licenses for all math teachers K-3 in English and French Immersion.
- Introduction of Fact Fluency Kits in Kindergarten - Grade 6.
- K-9 Learning Coaches received professional development in math talks, developing fact fluency, using the Fact Fluency Kits, using manipulatives in the classroom.
- K-9 Learning Coaches have worked side-by-side with classroom teachers to implement small group instruction, fact fluency kits and the Mathology resource.
- Optional *Building Thinking Classrooms* book club with over 30 teacher participants.
- New Curriculum PD Menu is offering 11 sessions related to math instruction.
- Division supported math manipulative carts are being added to each math classroom K-6.

Planned Supports

- Focused support on the use of math manipulatives in grades 4-6.
- Research and propose a pilot of a universal screener to replace the MIPI
- K-9 Learning Coaches in each school to coordinate and support ongoing attention to numeracy improvement.
- French Immersion working group to develop classroom practice and consistencies with administering screeners and assessments.
- Support ongoing data analysis of assessment data to inform instruction at classroom, small group and individual levels.
- Review and implement effective structures for ongoing Division-level mentoring for new teachers, coaches, and school leaders.
- Collaborate with Principals to explore opportunities within math programming in schools.

