

## Deep Learning: Mathematics

### What is our goal?

To build teacher and leader capacity in mathematics through the School Improvement Process. To use research-informed instructional and assessment practices to help all students develop strong math skills.

### How will we achieve it?

- Gather information from a variety of sources (quantitative, qualitative and perceptual data) that identify strengths, concerns (which students are not achieving the expected outcomes and why), areas in need of improvement, and that enable student needs to inform professional learning (September to October)
- Support school leaders to build their capacity in mathematics content knowledge and identify effective mathematics classroom practices (September to June)
- Support our newly established Itinerant Student Success Transitions Counsellors to work with classroom teachers to support students in Grades 6 to 8 to close math gaps (September to June)
- Form working groups to gather input from a variety of stakeholders (students, parents, teachers, coaches, administrators) to co-develop a system math plan that supports our school improvement process and is aligned with our commitment to human rights, equity, inclusion and anti-oppression in mathematics (Fall/Winter 2019)
- Develop resources to update the TDSB mathematics webpage for parents and staff (Fall/Winter 2019)
- Develop a Mathematics Additional Qualifications (AQ) Course and encourage the participation of school teams (Fall/Winter 2019)
- Build teacher capacity and address student needs through a range of Professional Learning offerings that focus on mathematics content and instructional practices (ongoing)
- Review existing mathematics assessment tools and provide professional learning on their effective use (September to June)

### How will we know we are successful?

- All students will experience deep learning opportunities, supported by technology, leading to improved achievement.
- 2018-19 EQAO Assessments will indicate an improvement in Mathematics (Grade 3, 6, and 9 Applied and Academic).
- Teacher and Principal/Vice-Principal participant rates will increase in AQ courses.
- Increased use of internal webpage by educators and external webpage by parents.
- Student Achievement Data including report cards and EQAO, classroom observations, Superintendent of Education school visits, web analysis, surveys (AQ courses), focus groups, professional learning feedback.