

## St. James Collegiate Goal Planning For 2019-2020

Step 1 Identify Action Arena	Step 2 Broad Outcome	Step 3 Desired student products and performance	Step 4 Required student knowledge, skills and dispositions	Step 5 Desired teaching products and performances	Step 6 Required teacher knowledge and dispositions	Step 7 Desired team product and performances	Step 8 Required team Knowledge, skills and dispositions
<p>To improve numeracy skills and improve students' ability to communicate their understanding, thinking and reasoning.</p>	<p>Student will deepen their thinking, use critical thinking, logic and be able to see authentic and real-world applications of Mathematics.</p> <p>Students will express their mathematical thinking in multiple ways and be able to discuss the process they use to solve an unfamiliar problem. (manipulatives, formulas, written, orally)</p> <p>To strengthen numeracy across the curriculum, working towards "thinking classrooms" with rich problem-solving rich tasks.</p>	<p>Students will have opportunities to expand their thinking opportunities at a higher level and see how their learning connects to the real world.</p> <p>By June 2020, all students will demonstrate good to excellent levels of understanding of the connection between symbols and words necessary for being literate in Mathematics.</p> <p>By June 2020, all students will be meeting grade level expectations in computational fluency in all subjects with that requirement.</p>	<p>Students will:</p> <p>Demonstrate an increased appreciation for the role making mistakes plays in learning.</p> <p>Communicate with a common vocabulary and understanding of the 6C's across all subject areas.</p> <p>Show an increased ability for making sense of tasks without teacher support. Will present and explain ideas, reasoning and representations to one another in pair, small group and whole class discourse.</p> <p>Students will be provided with more opportunities for self-assessment and reflection. Students will be engaged in creating their own problems to solve.</p> <p>Recognize the importance of depth over speed and the mathematical process over the correct answer.</p>	<p>Teachers will:</p> <p>Support productive struggle and utilize "The Learning Pit" strategies.</p> <p>Emphasize: mathematical skills, critical thinking skills, visible learning strategies and reflection strategies across the content areas.</p> <p>Emphasize the importance of depth over speed and the mathematical process over the correct answer.</p> <p>Work to embed the 5 Practices into their mathematical instruction and planning.</p> <p>Understand the importance and value of selecting rich tasks and anticipating possible student solutions before problems are used with students.</p> <p>To help all students achieve the academic preparation and success in numeracy required for their chosen path towards an immediate career or post-secondary education.</p>	<p>Teachers will:</p> <p>Select tasks that provide multiple entry points.</p> <p>Effectively model the OLM process with most of the instructional time in the "we do" part of the process. Use the <i>'Try it, Apply it Model'</i> on a regular basis in all subject areas.</p> <p>Understand how to gather and use a body of evidence to evaluate student learning and plan for next steps in instruction and programming.</p> <p>Create opportunities for student self-assessment and reflection.</p> <p>Create learning environments that are interactive, and student centered.</p> <p>Develop an understanding and design classroom characteristics towards deep learning.</p>	<p>Our Team Will:</p> <p>Continue to implement visible thinking strategies with the <i>try it and apply</i> it model to support our learning.</p> <p>Engage in conversations about shared beliefs about teaching and learning mathematics.</p> <p>Emphasize basic math skills, mental math strategies, writing in math, talking in math – "thinking out loud" and number sense in all Grade 9 math classes.</p> <p>Give priority to the mathematical practices, including problem-solving, reasoning, and constructing viable arguments in aspects of classroom practice.</p> <p>Will work alongside divisional supports (Indigenous Support Teacher, Deep Learning Coach) to support and engage students in the mathematics curriculum.</p> <p>Work collaboratively to select common grade level rich problem solving tasks with real life applications.</p>	<p>Our Team Believes:</p> <p>That numeracy is everyone's responsibility.</p> <p>Everyone is capable of learning math.</p> <p>That critical thinking is an essential part of Mathematical literacy.</p> <p>It is important for students to see authentic, real world application of Mathematics.</p> <p>That a growth mindset is necessary for both staff and students.</p> <p>Collective efficacy is critical in our work to engage students and improve/enrich student mathematical learning.</p>

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