



Area of Focus: Numeracy
Overall Goal: All applied students will achieve Provincial Standard (level 3) on the EQAO Math Assessment

Needs Assessment / Where Are We Now??

EQAO Data Applied
2016-2017
17% at level 3 – 12 students complete the assessment
2 students at level 3
5 students at level 2
3 students at level 1
1 student below level 1
50% of students identified with special education needs

Attitudinal Data
64% do not like math, nor do they think they are good at math

PLAN	ACT	ASSESS	REFLECT
PLAN: Needs Assessment <i>Where are we now?</i>	ACT: Evidenced-Based Strategies/Action <i>What are we going to do?</i>	ASSESS: Monitor/Gather Data <i>How are we doing? What evidence do you have?</i>	REFLECT: Analyze/Reflect <i>How did we do? Where to next?</i>
1st CYCLE OF INQUIRY Starting June 29, 2017 If/Then Statement: If students use the V3 strategy to visualize, verbalize and verify a problem - then mathematical reasoning will improve.	<ul style="list-style-type: none"> Teachers will co-construct success criteria and explicitly teach and coach V3 (verify, visualize and verbalize) with students. Teachers will use the monitoring plan template to track marker students. Teachers will use the V3 strategy regularly in math classes utilizing V3 specific strategy instruction in covering math concepts. Teachers will choose manipulatives to support their specific stranded visualization. Teachers will bring evidence of student work to each meeting for discussion. Teachers will create V3 anchor charts and display them in their classroom. Teachers will refer to these charts regularly. Learning team members will familiarize themselves with the Ministry monograph on algebraic reasoning. 	<ul style="list-style-type: none"> Teachers are regularly using V3 in their math classes and sharing student work and observations at monthly meetings. Some teachers are using the monitoring plan template. Teachers have created charts that refer to the class norms and strategies to be used with V3 Teachers are beginning to reference the Ministry monograph on algebraic reasoning. Most LD marker students are finding it difficult to deal in the abstract – they need the visual through manipulatives and visualization practice. Students are generally lagging in the verification phase. They tend to not do it on their own. Students know when they aren't right – but not where. 	<ul style="list-style-type: none"> The V3 strategy has helped to give most students a better starting place for problem solving. There is some concern that without teachers pushing regular practice it will be forgotten Teachers will give increased instruction and time for students to check their work to enhance verification. We need to expand our familiarity with the Algebraic reasoning monograph. We have to look at EQAO data that specifically deals with algebraic reasoning. Continue to explore the use of manipulatives in algebraic reasoning.
2nd CYCLE OF INQUIRY Starting November 20, 2017 Complete this section with any new data from your 1 st Cycle of Inquiry.	Actions will be outlined in the three learning team meetings through the "SIPSA Monitoring Template" and summarized here at the end of the cycle on March 9th, 2018	Data Gathering will be outlined and collected in the three learning team meetings through the "SIPSA Monitoring Template" and summarized here at the end of the cycle on March 9th, 2018	Reflections of Learning Teams work for cycle two will be summarized here at the end of the cycle on March 9th, 2018, and posted on Insite

<p><i>If/Then Statement: Posted by December 1, 2017</i></p>			
<p>3rd CYCLE OF INQUIRY Starting March 19, 2018 <i>Complete this section with any new data from your 2nd Cycle of Inquiry</i></p> <p><i>If/Then Statement: Posted by March 30, 2018</i></p>	<p><i>Actions will be outlined in the three learning team meetings through the "SIPSA Monitoring Template" and summarized here at the end of the cycle by June 15th, 2018.</i></p>	<p><i>Data Gathering will be outlined and collected in the three learning team meetings through the "SIPSA Monitoring Template" and summarized here at the end of the cycle by June 15, 2018.</i></p>	<p><i>Reflections of Learning Teams work for cycle two will be summarized here at the end of the cycle by June 15th, 2018, and posted on Insite</i></p>