



Improve Junior High Achievement in Science and Math 2010-2011

| Measures | Baseline | 2009-10 Results | 2010-11 Results |
|---|---|--|---|
| % of Students Reaching Acceptable Standard on Grade 9 Science PAT (3 year average) | 57.5 | 70.0 | 65.7% |
| % of Students Reaching Acceptable Standard on Grade 9 Math PAT (3 year average) | 60.2 | 64.8 | 56..6% |
| Prior Level of Achievement Grade 9 Math PAT 9 (June 2009) | -3.6 | -2.1 | -3.4 |
| # of Math Workshops offered and school attendance rates | 12 wrkshps av.71% of schools attending | 29 wrkshps 68% of Schools Attending | 20 workshops offered ; av 60% in attendance |
| # of Science Workshops offered and school attendance rates | 2 wrkshps: | 3 Wrkshps 43% of Schools Attending | None offered in 2010-2011 |
| % of parents satisfied that their child's school responds effectively to the math needs of students (baseline Spring 2010) | 92.4% | 92.4% | 91.8 |
| % of students satisfied with their understanding of what is being taught in math (baseline Spring 2010) | 80.8% | 80.8% | 80.8 |
| % of teachers that are satisfied that their school provides a systematic response to the needs of at-risk learners in math. | 76.6% | 76.6% | 75 |

| Month | Actions | Indicators of Success |
|--------------|---|--|
| Sept. | <ol style="list-style-type: none"> Sept. 8th Math 8 (AISI) Assessment Project Meeting – Met with project participants to review project goals and strategies and begin work around building assessment tools using varied levels of critical thinking skills (Bloom’s Taxonomy), and applying the grading scheme. Westwind School Division representatives were invited to (and attended) this meeting as they are interested in implementing this project in their own school division. Nine LRSD teachers in attendance. Three WWSD representatives in attendance. Sept. 29th Math 8 (AISI) Assessment Project Meeting – Met with project participants to check in on project implementation in project schools. Identified celebrations and frustrations, and clarified project strategies. Project teachers learned how to use Pinnacle to track student progress by outcome, print reports, etc. Teachers spent time creating assessment tools. Westwind School Division representatives were invited to (and attended) this meeting as they are interested in implementing this project in their own school division. Seven LRSD teachers in attendance. Five WWSD representatives in attendance. Sept. 30th FNMI Book Study – Introduced book study to participants, had preliminary discussions to identify concerns. Participated in a sample math | <ul style="list-style-type: none"> 13 point improvement on % of Students Reaching Acceptable Standard on Grade 9 Science PAT 4 point improvement on % of Students Reaching Acceptable Standard on Grade 9 Math PAT |

| Month | Actions | Indicators of Success |
|-------------|--|-----------------------|
| | <p>activity with a First Nation’s context. Read and discussed relevant articles on topic. Thirteen participants in attendance (2 from WA Day, 2 from Canyon, 4 from FP Walshe, 1 from GR Davis, 2 from MHHS, 1 from LRSD Central Office, 1 from SAPDC).</p> | |
| Oct. | <ol style="list-style-type: none"> 1. Oct. 8th Math 8 (AISI) Assessment Project Meeting – Project teachers met to continue development of common assessment tools. Six LRSD teachers in attendance 2. Oct. 13th Math 3 – Teachers read and discussed an article from the <i>Growing Professionally</i> book. They then spent some time discussing the challenges they had encountered so far this year as they implemented the new Math 3 program. They continued developing common assessment tools. The teachers spend the afternoon working with Ian Stewardson to complete PAT analysis based on the results from the spring. Eight (of 13+colony) LRSD teachers in attendance. 3. Oct. 19th Math 6 – Teachers read and discussed an article from the <i>Growing Professionally</i> book. They then spent some time discussing the challenges they had encountered so far this year. They discussed the development of a series of common assessment tools, and began working on the first assessment tool. Teachers spent the afternoon working with Ian Stewardson to complete PAT analysis based on the results from the spring. Five (of 13+colony) LRSD teachers in attendance. 4. Oct. 27th FNMI Book Study – WA Day presented the lessons they had tried as part of the math in a cultural context challenge. The group then shared insights from chapters 1, 8, 9, 18, and 19. Ten participants in attendance. | |
| Nov. | | |
| Dec. | <ol style="list-style-type: none"> 1. Taping for the High School Math Institute was completed in December. These videos will be accessible to high school math teachers province-wide and show different ways to incorporate differentiated instruction in high school math classrooms. | |
| Jan. | <ol style="list-style-type: none"> 1. Jan. 17th – Revision of Math 8 Checkups. I invited two of the teachers from the Math 8 AISI project to come together to work on revision of the Math 8 Checkups. We completed revisions to all the checkups in the Number and Patterns and Relations strand of the Math 8 curriculum. 2. Jan. 26th – Provincial High School Math Institute. SAPDC in Lethbridge was this January’s host site for the Provincial High School Math Institute. Marian Small was brought in from Eastern Canada to present on the topic of differentiation in the high school math classroom. The session was broadcast from Lethbridge to sites all over Alberta. Two teachers from LRSD in attendance. 3. Assessment tools for Math 10C have been posted to the LRSD sharepoint. 4. All planning documents (long-range plans, course outline, core curriculum, evaluation strategies, lesson plans, assessment tools, etc.) have also been posted to the SAPDC Math 10C moodle site, which is accessible to all high school math teachers throughout the province. | |

| Month | Actions | Indicators of Success |
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| Feb. | <ol style="list-style-type: none"> 1. Feb. 8th – LRSD Math 3 Work Session - Teachers read and discussed an article from the <i>Growing Professionally</i> book. We then looked at Pinnacle and discussed how the software would support their assessment practices. We then had a round-table discussion where each teacher in attendance shared a best practice. Teachers spend the afternoon developing common assessment tools. Eight (of 13+colony) LRSD teachers in attendance. 2. Feb 10th – Math 8 AISI. Project teachers met to discuss project implementation. Teachers identified celebrations and frustrations. Eight teachers in attendance (of 9 teachers in project.) 3. Feb 16th – FNMI Book Study. The group discussed the major ideas covered in chapters 4, 5, 13, 14, and 22. Ten participants in attendance (8 from LRSD). 4. Feb. 18th and March 11th – Revision of Math 8 Checkups. I invited two of the teachers from the Math 8 AISI project to come together to work on revision of the Math 8 Checkups. We completed revisions to all remaining checkups. All checkups are now posted to the LRSD sharepoint. | |
| Mar. | <ol style="list-style-type: none"> 1. March 3rd – LRSD Math 6 Work Session. This session was cancelled due to poor registration. 2. March 16th – LRSD Math 9 Work Session. Teachers reviewed a math resource then sorted through the I can statements posters. We then completed an analysis of the PAT results from last year. Teachers spent the afternoon reviewing the Math 9 long-range plans and discussion best practices and goals for future meetings. Four (of 8) teachers in attendance. 3. Mar 16th – FNMI Math Book Study. The group discussed the major ideas covered in chapters 6, 15, 16, and 23. Eight participants in attendance | |
| April | <ol style="list-style-type: none"> 1. Apr 18th – FNMI Math Book Study. The group discussed the major ideas covered in chapters 7, 17, 24, and 25. Five participants in attendance | <ul style="list-style-type: none"> • 95.3% of parents satisfied that their child's school responds effectively to the math needs of students |
| May | <ol style="list-style-type: none"> 1. May 5 – Math 3 Session. 3 teachers in attendance from 2 schools – teachers used the time to discuss and share resources, implementation strategies, create assessment tools. Three other teachers had originally registered to come but cancelled last minute. 2. May 10 – Math 6 Session. This session was cancelled due to lack of interest. 2 teachers were registered. 3. May 16 – Math 9 Session. 6 teachers from 5 schools in attendance. Teachers worked on revising all their common assessment tools now that they have been using them. | |