

2010 – 2011

**SAPDC Professional Learning Opportunities, Successes and Challenges
in support of
Implementation of the Revised Mathematics Program of Studies**

May 10th, 2011

Regional Professional Learning Support

- **Completed** – David DeCoste – one day workshops on the basics of the revised P of S offered for those new to Grades 3, 6, 9, 10 and/or for those who needed a refresher; offered in both Lethbridge and Medicine Hat in the fall 2010.
- **Completed** – Steve Leinwand – **Strengthening Teaching and Learning of High School Mathematics in ways that Support the Revised Curriculum** – partnered with ERLC and MCATA to bring Steve to Southern Alberta in September and October. A 2 day series, face to face with VC option was held in Lethbridge.

Upcoming – two province-wide follow-up webinars which will focus on implementation of the upcoming Grade 11 P of S are scheduled for May 12th and May 26th live and to be cached on the ARPDC website.
- **Completed** – Susan Clayton – **Understanding by Design** – planning for all grades, 3 part face to face series, October through January
- **Completed** – Marian Small – **Teaching Mathematics in Multigrade Classrooms** – 2 part webinar series for elementary teachers, live and cached on ARPDC website
- **Completed** – Zone 6 Teacher Experts - **Making Connections with Mathematics** – First of a two-day series of workshops for each of Grades K/1, 2/3, 4/5, 6/7, 8/9, and Grade 10; offered in both Lethbridge and Medicine Hat

Upcoming – Zone 6 Teacher Experts - **Making Connections with Mathematics** – Second of a two-day series of workshops for each of Grades K/1, 2/3, 4/5, 6/7, 8/9, and Grade 10; offered in both Lethbridge and Medicine Hat upcoming in May
- **Completed** – Marian Small — **Differentiating in the High School Classroom** – SAPDC hosted the January 2011 High School Institute face to face and a province-wide webcast to 19 sites across the province. A unique part of the Institute was use of footage of the planning, teaching and learning pertaining to differentiation in the Grade 10C classroom of our of SAPDC Implementation Teachers.

Completed – province-wide follow up webinars, March 21st and April 18th, live and cached on the ARPDC website.

Upcoming – **June High School Institute** – province-wide webcast across the province
- **Completed** – Mary Jo Rawleigh – face to face and VC session “Navigating the Mathematics 10C Course on the SAPDC Moodle Site.” Posted to the SAPDC moodle site for educators across the province to access.
- **Completed** – Mary Jo Rawleigh and Bonnie Layton (SAPDC Mathematics implementation Teachers) – **Review of Mathematics 10C on the SAPDC Moodle Site** - SWATCA and SEATCA sessions in Lethbridge (Medicine Hat session cancelled due to weather)
- **Completed** – Cathy Fosnot – **Early Number Sense, Addition and Subtraction** – Grades Pre K – 2, 2 Day Institute face to face

Completed – follow up webinar April 6th live and cached on the ARPDC website.

- **Completed** – Cathy Fosnot – **Young Mathematicians at Work, Focus on Multiplication and Division** – Grades 3 – 5 – 2 Day Institute face to face

Cancelled – follow up by webinar April 11th, due to technology problems
- **Completed** – **Mathematics Tool Kit** created by Sherry Bennett with assistance from David DeCoste - one day face to face session held
Provincial webinar for facilitators, including all provincial consortium facilitators, cached on ARPDC website. Webinar, power points and discussion guide posted on SAPDC moodle site and accessible to curriculum leaders province wide.
- **Cancelled** – Marian Small – **Using Mathematical Processes** – High School face to face session with VC option, March 14th
- **Completed** – Zone 6 Teacher Experts Grades 1 - 10 – **What DOES the revised Mathematics Program of Studies look and sound like in the classroom?** One day session for Administrators and curriculum leaders throughout Zone 6; offered in Lethbridge with VC option. Unique to the session was use of footage of the planning, teaching and learning reflected in various Grades 1 – 10 classrooms throughout the Zone.
- **Completed** – Alberta Education sessions
 - one day VC session on the **Grade 3 Provincial Achievement Testing** with Deanna Wiens, April 5th
 - one day VC session on the **Grade 6 and 9 Provincial Achievement Testing** with Kelly Rota, April 14th
- **Ongoing** – **Mathematics Advisory Committee** meetings in Medicine Hat with representatives from each division level, district, administration, and Central Office.
 - ✓ **October meeting** – reviewed 2009-2010 Mathematics Implementation Report, A Guide to Comprehensive Professional PD Planning, 2010-2-11 Implementation Plan, successes, challenges and professional learning needs in the Zone.
 - ✓ **January meeting** – reviewed successes, challenges and professional learning needs in the Zone as well as worked on A Guide to Support Implementation: Essential Conditions, as it applies to implementation of the revised Mathematics P of S.
 - ✓ **May meeting** – will review successes, challenges and professional learning needs in the Zone and continued work on the Essential Conditions document to assist with planning for the 2011-2012 implementation year.

District Professional Learning Support

- **Completed** – SAPDC Curriculum Coordinator **meetings with district curriculum leaders** often including ATA chairs and/or AISI leads, in September/October of the school year, to review results of the 2009-10 Mathematics Survey, A Guide to Comprehensive Professional PD Planning, A Guide to Support Implementation: Essential Conditions, SAPDC plans, and discuss district plans for the upcoming year.

Upcoming – SAPDC “Think Tank” **with district curriculum leaders** in May to review results of the 2010-11 SAPDC/ATA Needs Assessment Survey, A Guide to Comprehensive Professional PD Planning, A Guide to Support Implementation: Essential Conditions, SAPDC plans, and discuss district plans for the upcoming year.
- **Completed** – SAPDC Curriculum Coordinator **attendance at ATA meetings** in September/October to share district needs assessment results, SAPDC plans for the coming year, A Guide to Comprehensive Professional PD Planning, Guide to Support Implementation: Essential Conditions, and SAPDC plans for the coming year,

- **Bonnie Layton and Mary Jo Rawleigh**, seconded Mathematics Implementation Teachers provided support to educators in Zone 6 for Mathematics implementation as follows:
 1. **Ongoing – Parent Information Podcast** – available on the SAPDC Moodle site.
Bonnie addresses parents who have children in Grades K – 9
Mary Jo addresses parents of high school students
 2. **Completed – DISTRICT DAYS:** Beginning November 5th, 2010 through April 7th, 2011 Mary Jo Rawleigh was available to provide Mathematics implementation support to teachers of the revised High School Mathematics curriculum 10C and 10-3 as well as pre-implementation support of Mathematics 20-1 and 20-2, as **requested by districts**. Mary Jo Rawleigh was available to assist with the unique mathematical needs of each district in Zone 6 for **three days per district** over the course of the year for district days, in-school sessions, after school sessions, supper clubs, etc.
 3. **Completed – REGIONAL DAYS:** Beginning November 5th, 2010 through April 7th, 2011 Mary Jo Rawleigh also provided High School Mathematics support in the form of **regional sessions**, some of which are outlined below.
 - ✓ **COLLABORATIVE WORK SESSIONS:** Four face to face supper club sessions were held in four areas throughout the Zone to assist teachers with planning and implementing the revised Alberta Mathematics 10C and 10-3 Program of Studies and pre-implementation support for Mathematics 20-1 and 20-2. These hands-on sessions were designed to offer teachers the opportunity to work collaboratively with colleagues with the assistance of Mary Jo. Discussion and work sessions were based on **Integrated/Project Based Learning and Assessment for Learning**. Participants were encouraged to co-register for Susan Clayton's "Understanding By Design" and/or David Decoste's Mathematics 10C session which provided a strong background for work done in the supper clubs.
 - ✓ **COHORT:** As part of the Provincial Distributed Professional Learning (DPL) Demonstration Project, beginning in November, Mary Jo lead a **cohort** of Mathematics 10C teachers in learning more about how to differentiate instruction and assessment in Mathematics to meet the needs of diverse learners. SAPDC sponsored two participants from each district. Sessions were face to face and VC.
 - ✓ **BOOK STUDY:** Mary Jo lead a **book study: Changing Faces in Mathematics: an Aboriginal Perspective**. Sessions were face to face and VC province-wide.

Provincial Professional Learning Support

- **Completed** – SAPDC Curriculum Implementation Coordinator **sharing of SAPDC Mathematics reports and plans at the PD Partner's meeting** in the fall.

Upcoming – SAPDC Curriculum Implementation Coordinator **sharing of SAPDC Mathematics reports and plans at the PD Partner's meeting** in the spring.
- **Completed** – Marian Small – **Teaching Mathematics in Multigrade Classrooms** – Two part province-wide webinar series for elementary teachers, live and cached on ARPDC website
- **Completed** – **Use SMART Math Tools in your Classroom** – participated in ARPDC Webinar
- **Completed** – Marian Small – **Differentiating in the High School Classroom** – SAPDC hosted the January 2011 High School Institute face to face and a province-wide webcast to 19 sites across the province.

Completed - province-wide follow up webinars, March 21st and April 18th live and cached on the ARPDC website.
- **Completed** – **Mathematics Tool Kit** created by Sherry Bennett with assistance from David DeCoste - Provincial webinar for facilitators, including all provincial consortiums, cached on ARPDC website. Webinar, power points and discussion guide posted on SAPDC moodle site and accessible to curriculum leaders province wide.

- **Upcoming** – Steve Leinwand – **Strengthening Teaching and Learning of High School Mathematics in ways that Support the Revised Curriculum** – Two part province-wide webinars which will focus on implementation of the upcoming Grade 11 P of S are scheduled for May 12th and May 26th live and to be cached on the ARPDC website.

- **Upcoming** – **June High School Institute** – province-wide webcast across the province

- **Ongoing** – **Monthly Provincial Consortia Mathematics Lead meetings face to face and via Elluminate.**

- **Ongoing** – **Courses/Resources posted on the SAPDC moodle as follows:**

- ✓ **Province-wide Mathematics 10C Demo Class 2010 -11**

Bonnie taught a semestered Mathematics 10C course September through January 2010 and again February through June 2011. Mary Jo taught a 10C course the first quarter of the school year. Both posted plans, assessments, lessons, resources, and conversed with participants, etc., on the SAPDC Moodle site.

The moodle site is open to High School Mathematics teachers across the province where they are encouraged to engage with each other as a community of learners sharing our demo teachers' lessons, strategies, etc., as well as asking questions of other teachers.

- ✓ **Province-wide Mathematics 10-3 Demo Class 2010 -11**

SAPDC is partnering with CARC who has two teachers from Red Deer teaching a semestered Mathematics 10-3 course in Red Deer and posting plans, assessments, lessons, resources, etc., on our SAPDC Mathematics moodle site.

- ✓ **SAPDC CCH Mathematics 10C Student 2010-11-** course used by Mary Jo Rawleigh with her students for posting information, lessons, assignments, etc.

- ✓ **SAPDC Math Cohort 2010-11** – includes document pertaining to the **cohort** of Mathematics 10C teachers learning more about how to differentiate instruction and assessment in Mathematics

- ✓ **Province-wide SMART Math Tool for Teachers 2010-11**

- ✓ **Province-wide Math Div I (Gr.K-3) 2009-10**

- ✓ **Province-wide Math Div 11 (Gr.4-6) 2009-10** – includes lesson plans, assessments, etc., pertaining to this grade level developed and posted in the 2009-10 school year by SAPDC Implementation Teachers

- ✓ **Province-wide Math Div III (Gr.7-9) 2009-10** - includes lesson plans, assessments, etc., pertaining to this grade level developed and posted in the 2009-10 school year by SAPDC Implementation Teachers

- ✓ **Province-wide Math Div IV (Gr.10-12) 2009-10** - includes lesson plans, assessments, etc., pertaining to this grade level developed and posted in the 2009-10 school year by SAPDC Implementation Teachers

- ✓ **SAPDC Math Cohort 2009-10** - includes documents pertaining to the 2009-10 **cohort** of Mathematics 10C teachers learning more about how to differentiate instruction and assessment in Mathematics

- ✓ **Province-wide High School Institute Teacher Resources** – includes all teacher resources which pertain to all three High School Institutes, including recordings of all Institutes.

- ✓ **Province-wide High School Institute Planning Committee Resources** – includes agendas, minutes and all planning documents which pertain to all three High School Institutes

- ✓ **SAPDC Mathematics Advisory Committee Resources** – includes agendas, minutes and all committee documents

- ✓ **Zone 6 Curriculum Leader Resources**
 - 2010-2011 SAPDC Math Implementation Support Planner
 - SAPDC Math Implementation Support Planner follow up
 - Math Needs Assessment Full Report Summary 09-10
 - Evidence of Success - 2009-2010 for Administrators
 - Evidence of Success - 2010 - 2011 for Teachers
 - Mary Jo Rawleigh - Implementation Support
 - Ken Hakstol -Technology Implementation Support
 - Accessing SAPDC Implementation Support Teachers 2010 2011
 - Cohort 2010 2011
 - Cohort Differentiated Learning for 10C
 - Job-Embedded Professional Development

- ✓ **Province- wide Curriculum Leader Resources**
 - Article on professional development

 - SAPDC Implementation Teacher parent videos and power points

 - Tool kit webinar, power points and discussion documents

Successes

- ✚ Teacher **Evidence of Success** forms are indicating teacher change of practice which reflects the revised Mathematics Program of Studies.

Challenges

- ✚ Communication

- ✚ Providing the “right” professional learning opportunity at the “right” time with a widening gap in needs

- ✚ Teachers noting the lack of time, energy and funding to participate in professional learning opportunities.