



**SOUTH SHORE REGIONAL SCHOOL BOARD
CURRICULUM UPDATES & CONTACT INFORMATION
Last updated: October 15th, 2012**

MATHEMATICS

NOTE: P-12 Curriculum is currently under revision. The decision, as of March 2011, is that Nova Scotia will now move forward to adopt the Western and Northern Canadian Protocol (WNCP) math curriculum.

Visit <http://www.wncp.ca/english/subjectarea/mathematics.aspx>. On the left, click on Mathematics then click directly below on Common Curriculum Framework then K-9 (May 2006) and 10-12 (January 2008) to look at the detailed math curriculums.

Nova Scotia is the 11th of 13 Canadian jurisdictions to adopt the Western and Northern Canadian Protocol (WNCP) Common Curriculum Framework for K-9 mathematics, May 2006. In some jurisdictions, the WNCP has been solely adopted and has become the mathematics curriculum document as is; however in other jurisdictions changes have been made to the WNCP. Implementation will begin in 2013-2014, starting with P, 1, 2, 3 and 10.

The intent is to ensure our curriculum is developmentally appropriate for our students, research-based, and manageable for teachers. A reduction in the number of outcomes at each grade level can ensure teachers take the time required for students to gain a greater depth of understanding.

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If teachers have not yet downloaded the curriculum documents, they can be found (not all) in various stages (final, draft, conceptual, ..) on the protected website: <http://www.educators.ednet.ns.ca> along with other core resources for particular subjects

as well as Learning Outcomes Frameworks for P-6, 7-9 and 10-12 (lists all the GCO's and SCO's for each subject/course from P-12)

- Go to <http://www.educators.ednet.ns.ca/>
- Use your staff EDnet ID and password that you use at school
- Click on Mathematics

The DoE are looking to house all the curriculum guides/documents in a central place in the near future-stay tuned as not all curriculum guides are on the fore-mentioned educator's site (i.e. Health P-9). This is called the Edu-Portal. Check this central place out at <http://edapps.ednet.ns.ca/eduportal> . You will need your Employee Number as found on your payroll information.

There may be old and new draft outcomes both on PowerSchool for subjects like Health P-9, Social Studies 5, etc. It is up to staff and principals to decide where they are in the implementation stage (usually a 3-year implementation for new curriculums). We encourage teachers to use the newer outcomes whenever possible, especially if there are support resources available (i.e. Health P-9).

Autograph and SMART Math Tools software are on the school computers at all our high schools, including SSILC. Teachers can also get the software on their personal computer at home-this information was sent out to schools in June 2012.

The latest version of **Geometer's Sketchpad** is 5.04.

*Every year in Canada students from **grades 3 to 12** have the opportunity to participate in **Mathematics Contests**. The main focus of mathematics contests is to stimulate interest in mathematics. The contests are also a great tool to challenge our gifted and talented students who may be on an enrichment IPP for mathematics. A collection of problems and solutions from previous years can usually be ordered from the sponsor of the contest. <http://mathematica.ca>, www.themathleague.com, www.cemc.uwaterloo.ca , www.cms.math.ca/Competitions are some of the contest sites-enjoy!*

*Recommended by the DoE as an engaging **on-line math game** using problem solving skills to challenge students <http://www.mitacs.ca/outreach/mathamaze>

www.nctm.org -check it out for lesson plans, illuminations, latest app recommendations

Select a grade and/or category for more information:

[Mathematics Primary](#)

[Mathematics 1](#)

[Mathematics 2](#)

[Mathematics 3](#)

[Mathematics 4](#)

[Mathematics 5](#)

[Mathematics 6](#)

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[Mathematics Foundations 11](#)

[Mathematics 12](#)

[Mathematics 12](#)

[Advanced Mathematics 12](#)

[Pre-Calculus Mathematics 12](#)

[Calculus 12](#)

[Math for the Workplace 12](#)

[Mathematics Foundations 12](#)

Grade Primary

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Grades P-3 (1998)
- The Time to Learn Strategy requirement is a minimum of 45 minutes per day for grades P-2, one hour for grades 3-6 and a minimum of 5 minutes per day for mental math and estimation for grades 1-6

Core Resources

- Mathematics Grade Primary: “A Teaching Resource” to supplement the Guide with suggested yearly plans (2006)
- Mental Math in Mathematics Booklets (2009)
- Atlantic Canada Mathematics Assessment Resource-Entry (2010)
- SSRSB Supporting Mathematics site. Go to SSRSB website, then Teachers, then Technology Services, username=math, password=math, then Supporting Mathematics. Sample Report Card Comments for use in PowerSchool for grades P to 9 can also be found here. Each document contains “sample comments” for terms 1, 2 and 3. Each comment contains about half the number of characters allowed in PowerSchool in the comment box for mathematics. Both the introduction and percentages for time on task mentioned at the end of each comment follow suggestions from a year plan in the "Mathematics: A Teacher Resource" document for your grade level.

Grade 1

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Grades P-3 (1998)
- The Time to Learn Strategy requirement is a minimum of 45 minutes per day for grades P-2, one hour for grades 3-6 and a minimum of 5 minutes per day for mental math and estimation for grades 1-6

Core Resources

- Mathematics Grade 1: “A Teaching Resource” to supplement the Guide with suggested yearly plans (2006)
- Mental Math in Mathematics Booklets (2009)
- Mental Math series of 16 short videos which highlights different classrooms and grade levels (1-9) as it demonstrates the various strategies of Mental Math within a curricular context <http://dvl.ednet.ns.ca/mental-math>
- Atlantic Canada Mathematics Assessment Resource-Grade 1 (2010)
- SSRSB Supporting Mathematics site. Go to SSRSB website, then Teachers, then Technology Services, username - math, password - math, then Supporting Mathematics. Sample Report Card Comments for use in PowerSchool for grades P to 9 can also be found here. Each document contains “sample comments” for terms 1, 2 and 3. Each comment contains about half the number of characters allowed in PowerSchool in the comment box for mathematics. Both the introduction and percentages for time on task

mentioned at the end of each comment follow suggestions from a year plan in the "Mathematics: A Teacher Resource" document for your grade level.

Grade 2

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Grades P-3 (1998)
- The Time to Learn Strategy requirement is a minimum of 45 minutes per day for grades P-2, one hour for grades 3-6 and a minimum of 5 minutes per day for mental math and estimation for grades 1-6

Core Resources

- Mathematics Grade 2: "A Teaching Resource" to supplement the Guide with suggested yearly plans (2006)
- Mental Math in Mathematics Booklets (2009)
- Mental Math series of 16 short videos which highlights different classrooms and grade levels (1-9) as it demonstrates the various strategies of Mental Math within a curricular context <http://dvl.ednet.ns.ca/mental-math>
- Atlantic Canada Mathematics Assessment Resource-Grade 2 (2010)
- SSRSB Supporting Mathematics site. Go to SSRSB website, then Teachers, then Technology Services, username=math, password=math, then Supporting Mathematics. Sample Report Card Comments for use in PowerSchool for grades P to 9 can also be found here. Each document contains "sample comments" for terms 1, 2 and 3. Each comment contains about half the number of characters allowed in PowerSchool in the comment box for mathematics. Both the introduction and percentages for time on task mentioned at the end of each comment follow suggestions from a year plan in the "Mathematics: A Teacher Resource" document for your grade level.

Grade 3

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Grades P-3 (1998)
- The Time to Learn Strategy requirement is a minimum of 45 minutes per day for grades P-2, one hour for grades 3-6 and a minimum of 5 minutes per day for mental math and estimation for grades 1-6

Core Resources

- Mathematics Grade 3: "A Teaching Resource" to supplement the Guide with suggested yearly plans (2010)
- Mental Math in Mathematics Booklets (2009)
- Mental Math series of 16 short videos which highlights different classrooms and grade levels (1-9) as it demonstrates the various strategies of Mental Math within a curricular context <http://dvl.ednet.ns.ca/mental-math>
- Atlantic Canada Mathematics Assessment Resource-Grade 3 (2010)
- SSRSB Supporting Mathematics site. Go to SSRSB website, then Teachers, then Technology Services, username=math, password=math, then Supporting

Mathematics. Sample Report Card Comments for use in PowerSchool for grades P to 9 can also be found here. Each document contains “sample comments” for terms 1, 2 and 3. Each comment contains about half the number of characters allowed in PowerSchool in the comment box for mathematics. Both the introduction and percentages for time on task mentioned at the end of each comment follow suggestions from a year plan in the "Mathematics: A Teacher Resource" document for your grade level.

- Math Makes Sense Student Text Books & Teaching Guides –Grade 3
- There will be no EEMLA written in the 2012-2013 school year. It will move to Grade 4 beginning in the Fall 2013.

Grade 4

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Grades 4-6 (1999)
- The Time to Learn Strategy requirement is a minimum of 45 minutes per day for grades P-2, one hour for grades 3-6 and a minimum of 5 minutes per day for mental math and estimation for grades 1-6

Core Resources

- Mathematics Grade 4: “A Teaching Resource” to supplement the Guide with suggested yearly plans (2008)
- Mathematics 4: A Support Resource (Draft, September 2008)
- Mental Math in Mathematics 4 (Draft, December 2008)
- Mental Math series of 16 short videos which highlights different classrooms and grade levels (1-9) as it demonstrates the various strategies of Mental Math within a curricular context <http://dvl.ednet.ns.ca/mental-math>
- Math Makes Sense Student Text Books & Teaching Guides –Grade 4
- Schools/Grade 4 Math teachers/Principals are responsible for tracking those students who had not met expectations on the EEMLA. The Grade 4 Math teacher would have conversation with the Grade 3 teacher and develop the plan. At the end of the year, the 1 page documentation is to be put in the student’s cum card in June and signed of by both the principal and teacher. Gaston has revised the form and included some samples for schools-these can be found on the SSRSB Supporting Mathematics site. Go to SSRSB website, then Teachers, then Technology Services, username=math, password=math, then Supporting Mathematics. Sample Report Card Comments can also be found here.
- Check out Census at School, an international Web-based classroom activity for students, at www.censusatschool.ca Ties in nicely with the Data Management outcomes. Even more Statistics Canada learning resources at www.statcan.gc.ca/learningresources for mathematics and other subjects.

Grade 5

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Grades 4-6 (1999)

- The Time to Learn Strategy requirement is a minimum of 45 minutes per day for grades P-2, one hour for grades 3-6 and a minimum of 5 minutes per day for mental math and estimation for grades 1-6

Core Resources

- Mathematics Grade 5: “A Teaching Resource” to supplement the Guide with suggested yearly plans (2006)
- Mathematics 5: A Support Resource (Draft, September 2008)
- Mental Math in Mathematics 5 (Draft, December 2008)
- Mental Math series of 16 short videos which highlights different classrooms and grade levels (1-9) as it demonstrates the various strategies of Mental Math within a curricular context <http://dvl.ednet.ns.ca/mental-math>
- Math Makes Sense Student Text Books & Teaching Guides –Grade 5
- Schools/Grade 5 Math teachers/Principals are responsible for continuing to track those students who had not met expectations on the EEMLA. The Grade 4 Math teacher would have put a 1-page Math support update in the child’s cum and had conversation with next year’s teacher if the support was going to continue in Grade 5. The 1 page documentation is to be put in the student’s cum card in June and signed of by both the principal and teacher. Gaston has revised the form and included some samples for schools-these can be found on the SSRSB Supporting Mathematics site. Go to SSRSB website, then Teachers, then Technology Services, username=math, password=math, then Supporting Mathematics. Sample Report Card Comments can also be found here.
- Check out Census at School, an international Web-based classroom activity for students, at www.censusatschool.ca Ties in nicely with the Data Management outcomes. Even more Statistics Canada learning resources at www.statcan.gc.ca/learningresources for mathematics and other subjects.

Grade 6

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Grades 4-6 (1999)
- The Time to Learn Strategy requirement is a minimum of 45 minutes per day for grades P-2, one hour for grades 3-6 and a minimum of 5 minutes per day for mental math and estimation for grades 1-6

Core Resources

- Mathematics 6 Curriculum Project (2004/Mark MacLeod)
- Mathematics Grade 6: “A Teaching Resource” to supplement the Guide with suggested yearly plans (2010)
- Mathematics 6: A Support Resource (Draft, September 2009)
- Mental Math in Mathematics 6 (Draft, December 2008)
- Mental Math series of 16 short videos which highlights different classrooms and grade levels (1-9) as it demonstrates the various strategies of Mental Math within a curricular context <http://dvl.ednet.ns.ca/mental-math>
- Math Makes Sense Student Text Books & Teaching Guides –Grade 6

- Schools/Grade 6 Math teachers/Principals are responsible for continuing to track those students who had not met expectations on the EEMLA. The Grade 5 Math teacher would have put a 1-page Math support update in the child's cum and had conversation with next year's teacher if the support was going to continue in Grade 6. The 1 page documentation is to be put in the student's cum card in June and signed of by both the principal and teacher. Gaston has revised the form and included some samples for schools-these can be found on the SSRSB Supporting Mathematics site. Go to SSRSB website, then Teachers, then Technology Services, username=math, password=math, then Supporting Mathematics. Sample Report Card Comments can also be found here.
- Check out Census at School, an international Web-based classroom activity for students, at www.censusatschool.ca Ties in nicely with the Data Management outcomes. Even more Statistics Canada learning resources at www.statcan.gc.ca/learningresources for mathematics and other subjects.
- RWM Grade 6 Math Assessment resources <http://plans.ednet.ns.ca> Oct 2-5, 2012. Check out the Assessment Archive for resources such as the 2009-2010 "What We Have Learned" document and find out which outcomes students struggle with along with the 2010-2011 EMLA Common Errors.

Grade 7

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Grade 7 (1999)
- The Time to Learn Strategy requires a minimum of 60 minutes per day for grade 7

Core Resources

- A Moodle now exists for teachers to access for Mathematics 7-9. Go to <http://nsvs.ednet.ns.ca> and use your staff ednet (tsmith portion) and your password then go to top menu and click on Educators then drop down and click on Professional Learning then drop down and click on Provincial Teacher Communities of Practice then click on Mathematics and then click Mathematics Learning Commons 7-9. Enrollment key is **math789** (*use just once*). Once you have been in to the site once, the next time you log in, you can just go to My Courses on the left and click on Mathematics Learning Commons 7-9 and away you go!
- This one-stop shopping Grade 7-9 Math Moodle contains access to the following resources: Math Curriculum Guides, the "A Teaching Resource" documents, Yearly Plans, Videos, assessment materials, Mental Math Booklets, Item Bank, EEMLA and EMLA, recommended ALR resources, Home-School Communication: Grades 7-9 Resource, and even a Forum to chat with other math teachers along with a variety of other links.
- Math 7: Focus on Understanding (Student Text & TR)-100% match to SCO's
- Mathematics Grade 7: "A Teaching Resource" to supplement the Guide with suggested yearly plans (2005; revised and reprinted 2010)

- Looking for quality assessment items for tests, quizzes, student discussions, etc. Check out the Grades 7-12 Item Bank at <http://itembank.ednet.ns.ca>. A Login ID and Password are required to access this site. You can obtain this from the Department of Education, at 424-4258 or by emailing itembank@gov.ns.ca.
- Sharon McCready, Mathematics Support Consultant in the English Program Services Division, is currently collaborating with staff of Learning Resources & Technology Services in the post-production work towards a new teacher professional development video series for teachers of mathematics in grades 7 to 9. Ten segments are in preparation, each on a different theme: Accommodating Students; Activating Prior Knowledge; Assessment; Classroom Management; Communicating with Parents; Language; Manipulatives; Mental Math; Preparation and Planning; and Teaching Tactics. Each video will present best practices from a contributing team of Math teachers from across Nova Scotia, from Digby to Sydney, through both interviews and live, unrehearsed sequences from actual classes—at all three of the focus grade levels. Together, the segments will form a comprehensive professional development resource for teachers that can be used by Board and school staff whenever and wherever the need arises. The series will be available in October 2012 as both a conventional DVD set, distributed from the LRTS Media Library, and online as part of the LRTS Digital Video Library (<http://dvl.ednet.ns.ca>). The series will join the award-winning resource, Mental Math, as a practical support for Nova Scotia Math teachers.
- Mental Math series of 16 short videos which highlights different classrooms and grade levels (1-9) as it demonstrates the various strategies of Mental Math within a curricular context <http://dvl.ednet.ns.ca/mental-math>
- Schools/Grade 7 Math teachers/Principals are responsible for tracking those students who had not met expectations on the EMLA. The Grade 7 Math teacher would have conversation with the Grade 6 teacher and look at their 1 page documentation in the Cum along with the EMLA results and develop the plan. The updated 1 page documentation by the Grade 7 teacher is to be put in the student's cum card in June and signed of by both the principal and teacher- this will be followed up by the Grade 8 teacher if support needs to continue. Gaston has revised the form and included some samples for schools-these can be found on the SSRSB Supporting Mathematics site. Go to SSRSB website, then Teachers, then Technology Services, username=math, password=math, then Supporting Mathematics. Sample Report Card Comments can also be found here.
- Check out Census at School, an international Web-based classroom activity for students, at www.censusatschool.ca Ties in nicely with the Data Management outcomes. Even more Statistics Canada learning resources at www.statcan.gc.ca/learningresources for mathematics and other subjects.

Grade 8

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Grade 8 (1999)
- The Time to Learn Strategy requires a minimum of 60 minutes per day for grade 8

Core Resources

- A Moodle now exists for teachers to access for Mathematics 7-9. Go to <http://nsvs.ednet.ns.ca> and use your staff ednet (tsmith portion) and your password then go to top menu and click on Educators then drop down and click on Professional Learning then drop down and click on Provincial Teacher Communities of Practice then click on Mathematics and then click Mathematics Learning Commons 7-9. Enrollment key is **math789** (*use just once*). Once you have been in to the site once, the next time you log in, you can just go to My Courses on the left and click on Mathematics Learning Commons 7-9 and away you go!
- This one-stop shopping Grade 7-9 Math Moodle contains access to the following resources: Math Curriculum Guides, the “A Teaching Resource” documents, Yearly Plans, Videos, assessment materials, Mental Math Booklets, Item Bank, link to Provincial Assessments/resources, recommended ALR resources, Home-School Communication: Grades 7-9 Resource, and even a Forum to chat with other math teachers along with a variety of other links.
- Math 8: Focus on Understanding (Student Text & TR)-100% match to SCO’s
- Mathematics Grade 8: “A Teaching Resource” to supplement the Guide with suggested yearly plans (2005)
- Looking for quality assessment items for tests, quizzes, student discussions, etc. Check out the Grades 7-12 Item Bank at <http://itembank.ednet.ns.ca>. A Login ID and Password are required to access this site. You can obtain this from the Department of Education, at 424-4258 or by emailing itembank@gov.ns.ca.
- Sharon McCready, Mathematics Support Consultant in the English Program Services Division, is currently collaborating with staff of Learning Resources & Technology Services in the post-production work towards a new teacher professional development video series for teachers of mathematics in grades 7 to 9. Ten segments are in preparation, each on a different theme: Accommodating Students; Activating Prior Knowledge; Assessment; Classroom Management; Communicating with Parents; Language; Manipulatives; Mental Math; Preparation and Planning; and Teaching Tactics. Each video will present best practices from a contributing team of Math teachers from across Nova Scotia, from Digby to Sydney, through both interviews and live, unrehearsed sequences from actual classes—at all three of the focus grade levels. Together, the segments will form a comprehensive professional development resource for teachers that can be used by Board and school staff whenever and wherever the need arises. The series will be available in October 2012 as both a conventional DVD set, distributed from

the LRTS Media Library, and online as part of the LRTS Digital Video Library (<http://dvl.ednet.ns.ca>). The series will join the award-winning resource, Mental Math, as a practical support for Nova Scotia Math teachers.

- Mental Math series of 16 short videos which highlights different classrooms and grade levels (1-9) as it demonstrates the various strategies of Mental Math within a curricular context <http://dvl.ednet.ns.ca/mental-math>
- Each teacher that attended the Math 8 workshop on Thursday, September 22nd, 2011 received a USB memory stick with all the Grade 8 Math support materials, including 4 sample yearly plans, and documents that are required for Grade 8 Math-extra copies are available through Mark.
- The DoE completed the process of developing material for the Grade 8 Mathematics Assessment. The assessment items were developed by current math teachers, reviewed by an Advisory group (Sharon Knickle from HA and Kendra Hall from BHS were our members of the team) and were field-tested in early October 2011. The assessment will be comprised of mostly multiple-choice items and may include some open-ended questions where students will bubble in their answer. Determination of question format will be made after the field test. A release of practice items in all question formats was made available early in 2012. Items were developed based on the Nova Scotia Grade 7 and 8 Mathematics Curriculum Guide and the Grade 8 Mathematics Resource: Focus on Understanding. The Table of Specifications is as follows: GCO's A & B / Number = 35-40%; GCO B / Patterns & Relations = 15-20%; GCO D / Measurement = 15-20%; GCO E / Geometry = 15-20%; GCO F / Data Management = 5-10%; GCO G / Probability = 5%.
- On Friday, March 2nd, 2012, all teachers who teach Grade 8 Mathematics, including teachers who teach Grade 8 Mathematics en Français (BHS, SQ's, HA), were invited to attend a PD session focusing solely on the new Grade 8 Mathematics Assessment which will be written for the 1st time on June 5-6, 2012 in our schools. The workshop looked at the process/table of specifications; level of questions; exemplars/sample mock questions; field tested questions; areas of difficulty concluded from the field-tested questions; and a Q & A all in relation to the new Grade 8 Mathematics Assessment. Marthe Craig (DoE Evaluation Services), along with Mark MacLeod and Gaston Comeau provided the In-service.
- Schools/Grade 8 Math teachers/Principals are responsible for tracking those students who had not met expectations on the EMLA and still require support. The Grade 8 Math teacher would have conversation with the Grade 7 teacher and look at their 1 page documentation in the Cum along with the EMLA results and develop the plan. The updated 1 page documentation by the Grade 8 teacher is to be put in the student's cum card in June and signed of by both the principal and teacher-this will be followed up by the Grade 9 teacher if support needs to continue and in looking at the students who did not meet expectations on the Grade 8 Assessment results (written in June). Gaston has revised the form and included some samples for schools-these can be found on the SSRSB Supporting Mathematics site. Go to SSRSB website, then Teachers, then Technology Services, username=math, password=math, then

Supporting Mathematics. Sample Report Card Comments can also be found here.

- RWM Grade 8 Math Assessment resources <http://plans.ednet.ns.ca> June 3-6, 2013.
- Check out Census at School, an international Web-based classroom activity for students, at www.censusatschool.ca Ties in nicely with the Data Management outcomes. Even more Statistics Canada learning resources at www.statcan.gc.ca/learningresources for mathematics and other subjects.

Grade 9

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Grade 9 (2000)-new guide expected in Sept 2012
- The Time to Learn Strategy requires a minimum of 60 minutes per day for grade 9

Core Resources

- A Moodle now exists for teachers to access for Mathematics 7-9. Go to <http://nsvs.ednet.ns.ca> and use your staff ednet (tsmith portion) and your password then go to top menu and click on Educators then drop down and click on Professional Learning then drop down and click on Provincial Teacher Communities of Practice then click on Mathematics and then click Mathematics Learning Commons 7-9. Enrollment key is **math789** (*use just once*). Once you have been in to the site once, the next time you log in, you can just go to My Courses on the left and click on Mathematics Learning Commons 7-9 and away you go!
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- Math 9: Focus on Understanding (Student Text & TR)-100% match to SCO’s
- Mathematics Grade 9: “A Teaching Resource” to supplement the Guide with suggested yearly plans (2005)
- Looking for quality assessment items for tests, quizzes, student discussions, etc. Check out the Grades 7-12 Item Bank at <http://itembank.ednet.ns.ca>. A Login ID and Password are required to access this site. You can obtain this from the Department of Education, at 424-4258 or by emailing itembank@gov.ns.ca.
- Sharon McCready, Mathematics Support Consultant in the English Program Services Division, is currently collaborating with staff of Learning Resources & Technology Services in the post-production work towards a new teacher professional development video series for teachers of mathematics in grades 7 to 9. Ten segments are in preparation, each on a different theme:

Accommodating Students; Activating Prior Knowledge; Assessment; Classroom Management; Communicating with Parents; Language; Manipulatives; Mental Math; Preparation and Planning; and Teaching Tactics. Each video will present best practices from a contributing team of Math teachers from across Nova Scotia, from Digby to Sydney, through both interviews and live, unrehearsed sequences from actual classes—at all three of the focus grade levels. Together, the segments will form a comprehensive professional development resource for teachers that can be used by Board and school staff whenever and wherever the need arises. The series will be available in October 2012 as both a conventional DVD set, distributed from the LRTS Media Library, and online as part of the LRTS Digital Video Library (<http://dvl.ednet.ns.ca>). The series will join the award-winning resource, Mental Math, as a practical support for Nova Scotia Math teachers.

- Mental Math series of 16 short videos which highlights different classrooms and grade levels (1-9) as it demonstrates the various strategies of Mental Math within a curricular context <http://dvl.ednet.ns.ca/mental-math>
- Each grade 9 Mathematics classroom received a class set of Alge-tiles (March 2011)
- Schools/Grade 9 Math teachers/Principals are responsible for tracking those students who had not met expectations on the Grade 8 Math Assessment. The Grade 9 Math teacher would have conversation with the Grade 8 teacher and look at their 1 page documentation in the Cum along with the Grade 8 Math Assessment results and develop the plan. The updated 1 page documentation by the Grade 9 teacher is to be put in the student's cum card in June and signed of by both the principal and teacher-this will be followed up by the Grade 10 teacher if support needs to continue. Gaston has revised the form and included some samples for schools-these can be found on the SSRSB Supporting Mathematics site. Go to SSRSB website, then Teachers, then Technology Services, username=math, password=math, then Supporting Mathematics. Sample Report Card Comments can also be found here.
- Our High School Math Advisory group, met on Wednesday, March 23rd, 2011, and developed a Placement Document that will help in our students choosing high school math courses that they can be successful in consultation with their teacher, Guidance Counselor and parents. These documents were being used beginning in the 2011-2012 school year.
- Check out Census at School, an international Web-based classroom activity for students, at www.censusatschool.ca Ties in nicely with the Data Management outcomes. Even more Statistics Canada learning resources at www.statcan.gc.ca/learningresources for mathematics and other subjects.

Grade 10

Mathematics 10 (Academic) MTH10

(BJSHS, FHCS, LRHS, NGRHS, NQRHS, PVEC)

Prerequisite: Successful completion of Mathematics 9 and demonstrated good to excellent performance in relation to the expected learning outcomes prescribed for Mathematics 9.

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Mathematics 10 (2004)
- IPP code is MTH10GRIP / 008102. The code refers to the grade level at which the student requires an IPP for mathematics, not to the specific classroom in which a student who requires an IPP is placed.

Core Resources

- Mathematical Modeling: Book 1 (2000) Student Text / Teacher's Resource. Only CD copies of the texts Mathematical Modeling, Book 1 (Mathematics 10) and Mathematical Modeling, Book 2 (Mathematics 11 and Advanced Mathematics 11) are now available for purchase from the ALR and not the text itself.
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
- Our High School Math Advisory group, met on Wednesday, March 23rd, 2011, and developed a Placement Document that will help in our students choosing high school math courses that they can be successful in consultation with their teacher, Guidance Counselor and parents. These documents were being used beginning in the 2011-2012 school year.
- David Pilmer has developed a series of Mathematics 49 videos for the NSCC Adult Learning Program (ALP). Topics include Sinusoidal Functions, Quadratic Functions, Systems of Equations and more. To view the videos visit the website <http://www.youtube.com/watch?v=eaG4px5o5vs>
- Looking for quality assessment items for tests, quizzes, student discussions, etc. Check out the Grades 7-12 Item Bank at <http://itembank.ednet.ns.ca>. A Login ID and Password are required to access this site. You can obtain this from the Department of Education, at 424-4258 or by emailing itembank@gov.ns.ca.
- Student Workbooks for the APEF Mathematics curriculum of Math 10, 11, and 12 from a teacher in NFLD is a resource available to our high school math teachers. The workbooks contain hundreds of fully worked examples and over 1500 practice exercises. Check it out at <http://www.sharpe-mathematics.com>

**Mathematics 10 Plus (Academic-2 credits) MTH10PL (Math) & MTH10PS
(elective)
(LRHS)**

Prerequisite: Successful completion of Mathematics 9 and recommendation from the Mathematics 9 teacher.

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Mathematics 10 (2004)
- Mathematics 10 Plus: A Teaching Resource (Draft 2004)-gives the additional outcomes and provides yearly, unit and lesson plans
- IPP code is MTH10GRIP / 008102. The code refers to the grade level at which the student requires an IPP for mathematics, not to the specific classroom in which a student who requires an IPP is placed.
- Our High School Math Advisory group, met on Wednesday, March 23rd, 2011, and discussed the possibility of looking into the Math 10 Plus course and offering it in our schools (runs year-long and allows students more hours (double) to get a better understanding of Grade 10 concepts, etc which may provide lasting benefits later). Currently beginning in 2011-2012, LRHS and FHCS offer Math 10 Plus and the Chignecto Board offers it and feels that it is very sound in preparing Grade 10 students for future success in Grade 11 and 12 and the NSE's. CRSB combines this Math 10 Plus course with a Regional Common Grade 10 exam and finds that it has data to show that placement and overall student success in mathematics has improved because of the Math 10 Plus and Grade 10 Common exam combination.

Core Resources

- Mathematical Modeling: Book 1 (2000) Student Text / Teacher's Resource. Only CD copies of the texts Mathematical Modeling, Book 1 (Mathematics 10) and Mathematical Modeling, Book 2 (Mathematics 11 and Advanced Mathematics 11) are now available for purchase from the ALR and not the text itself.
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
- Our High School Math Advisory group, met on Wednesday, March 23rd, 2011, and developed a Placement Document that will help in our students choosing high school math courses that they can be successful in consultation with their teacher, Guidance Counselor and parents. These documents were being used beginning in the 2011-2012 school year.
- David Pilmer has developed a series of Mathematics 49 videos for the NSCC Adult Learning Program (ALP). Topics include Sinusoidal Functions, Quadratic Functions, Systems of Equations and more. To view the videos visit the website <http://www.youtube.com/watch?v=eaG4px5o5vs>

- Looking for quality assessment items for tests, quizzes, student discussions, etc. Check out the Grades 7-12 Item Bank at <http://itembank.ednet.ns.ca>. A Login ID and Password are required to access this site. You can obtain this from the Department of Education, at 424-4258 or by emailing itembank@gov.ns.ca.
- Student Workbooks for the APEF Mathematics curriculum of Math 10, 11, and 12 from a teacher in NFLD is a resource available to our high school math teachers. The workbooks contain hundreds of fully worked examples and over 1500 practice exercises. Check it out at <http://www.sharpemathematics.com>

Mathematics Essentials 10 (Grad) MTHE10

(FHCS, LRHS, NGRHS, NQRHS, PVEC)

Prerequisite: Successful completion of Math 8 and recommendation from their Mathematics 9 teacher

Provincial Guide

- Mathematics Essentials 10 (Draft 2005)

Core Resources

- Mathematics for Everyday Life 10 Student Text / Teacher's Resource
- The City - an exciting resource for teaching financial management. Check it out at <http://www.themoneybelt.gc.ca>. Mark MacLeod and Jeff Rhodenizer (BHS) have been trained using this resource.
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
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Mathematics Foundations 10 (Grad) MTH10F

(BJSHS, FHCS, LRHS, NQRHS, PVEC)

Prerequisite: Successful completion of Mathematics 9

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Mathematics Foundations 10 (Implementation Draft 1999)

Core Resources

- Constructing Mathematics: Book 1 (2000) Student Text / Teacher's Resource
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
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Mathematics Foundations 10 Plus (Grad-2 credits) MTHFD10PS

(not offered in SSRSB)

Prerequisite: Successful completion of Mathematics 9

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Mathematics Foundations 10 (Implementation Draft 1999)
- Mathematics Foundations 10 Plus: A Teaching Resource (Draft 2004)-gives the additional outcomes and provides yearly, unit and lesson plans
- IPP code is MTH10GRIP / 008102. The code refers to the grade level at which the student requires an IPP for mathematics, not to the specific classroom in which a student who requires an IPP is placed.

Core Resources

- Constructing Mathematics: Book 1 (2000) Student Text / Teacher's Resource
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
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Grade 11

Mathematics 11 (Academic) MTH11

(BJSHS, FHCS, LRHS, NGRHS, NQRHS, PVEC)

Prerequisite: Successful completion of Mathematics 10

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Mathematics 11 / Advanced Mathematics 11 (Implementation Draft 2000)
- IPP code is MTH11IP / 008109. The code refers to the grade level at which the student requires an IPP for mathematics, not to the specific classroom in which a student who requires an IPP is placed.

Core Resources

- Mathematical Modeling: Book 2 (2004). Student Text and TR. Only CD copies of the texts Mathematical Modeling, Book 1 (Mathematics 10) and Mathematical Modeling, Book 2 (Mathematics 11 and Advanced Mathematics 11) are now available for purchase from the ALR and not the text itself.
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
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- Student Workbooks for the APEF Mathematics curriculum of Math 10, 11, and 12 from a teacher in NFLD is a resource available to our high school math teachers. The workbooks contain hundreds of fully worked examples and over 1500 practice exercises. Check it out at <http://www.sharpemathematics.com>

Advanced Mathematics 11 (Adv) MTH11AD

(BJSHS, FHCS, LRHS, NGRHS, NQRHS, PVEC)

Prerequisite: Successful completion of Mathematics 10 and have outstanding performance in relation to the learning outcomes prescribed for Mathematics 10.

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Mathematics 11 / Advanced Mathematics 11 (Draft 2000)

Core Resources

- Mathematical Modeling: Book 2 (2004). Student Text and TR. Only CD copies of the texts Mathematical Modeling, Book 1 (Mathematics 10) and Mathematical Modeling, Book 2 (Mathematics 11 and Advanced Mathematics 11) are now available for purchase from the ALR and not the text itself.
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
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Mathematics Essentials 11 (Grad) MTHE11

(BJSHS, FHCS, LRHS, NGRHS, PVEC)

Prerequisite: Successful completion of Mathematics Essentials 10

Provincial Guide

- Mathematics Essentials 11 (Draft November 2006)

Core Resources

- Mathematics for Everyday Life 11 Student Text / Teacher's Resource
- Mathematics for Everyday Life 12 Student Text / Teacher's Resource

- The City - an exciting resource for teaching financial management. Check it out at <http://www.themoneybelt.gc.ca>. Mark MacLeod and Jeff Rhodenizer (BHS) have been trained using this resource.
- Item Bank
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
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Mathematics Foundations 11 (Grad) MTH11F
(FHCS, LRHS, NQRHS, PVEC)

Prerequisite: Successful completion of Mathematics Foundations 10 or Mathematics 10

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Mathematics Foundations 11 (Implementation Draft 2000)

Core Resources

- Constructing Mathematics: Book 2 (2000) Student Text / Teacher's Resource
- The City - an exciting resource for teaching financial management. Check it out at <http://www.themoneybelt.gc.ca>. Mark MacLeod and Jeff Rhodenizer (BHS) have been trained using this resource.
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
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- Looking for quality assessment items for tests, quizzes, student discussions, etc. Check out the Grades 7-12 Item Bank at <http://itembank.ednet.ns.ca>. A

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Grade 12

Mathematics 12 (Acad) MTH12

(BJSHS, FHCS, LRHS, NGRHS, NQRHS, PVEC)

Prerequisite: Successful completion of Mathematics 10

Recommended Prerequisite: Successful completion of Mathematics 11

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Mathematics 12 / Advanced Mathematics 12 (2004)
- IPP code is MTH12IP / 008110. The code refers to the grade level at which the student requires an IPP for mathematics, not to the specific classroom in which a student who requires an IPP is placed.

Core Resources

- Mathematical Modeling: Book 3 (2001) Student Text / Teacher's Resource. This is to advise that the department is not investing in further production of Mathematical Modeling, Book 3 (Stock Code: #22846), the textbook for Mathematics 12 and Advanced Mathematics 12. There seems hardly any demand for the text this year and little anticipated in the two years thereafter. The DoE shall be providing new resources to support the implementation of new grade 12 mathematics courses in September 2015. Given declining enrolment, you may wish to collect surplus copies that are no longer needed in your schools for redistribution in other schools if necessary over the next three years.
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
- NSE resources <http://plans.ednet.ns.ca> January 28th, 2013; June 14th, 2013. The 2012-2013 school year will be the last year that the Grade 12 Math Assessments will be written. The DoE will provide schools with a electronic copy of the assessment. We will leave it up to our schools to use the entire DoE assessment or parts of it and will administer on their own and mark as they do all their school exams. They will move to Grade 10 effective 2013-14.
- Our High School Math Advisory group, met on Wednesday, March 23rd, 2011, and developed a Placement Document that will help in our students choosing high school math courses that they can be successful in consultation with their teacher, Guidance Counselor and parents. These documents were being used beginning in the 2011-2012 school year.

- David Pilmer has developed a series of Mathematics 49 videos for the NSCC Adult Learning Program (ALP). Topics include Sinusoidal Functions, Quadratic Functions, Systems of Equations and more. To view the videos visit the website <http://www.youtube.com/watch?v=eaG4px5o5vs>
- Looking for quality assessment items for tests, quizzes, student discussions, etc. Check out the Grades 7-12 Item Bank at <http://itembank.ednet.ns.ca>. A Login ID and Password are required to access this site. You can obtain this from the Department of Education, at 424-4258 or by emailing itembank@gov.ns.ca.
- Student Workbooks for the APEF Mathematics curriculum of Math 10, 11, and 12 from a teacher in NFLD is a resource available to our high school math teachers. The workbooks contain hundreds of fully worked examples and over 1500 practice exercises. Check it out at <http://www.sharpemathematics.com>

Advanced Mathematics 12 (Adv) MTH12AD

(BJSHS, FHCS, LRHS, NGRHS, NQRHS, PVEC)

Prerequisite: Successful completion of Mathematics 10 and have demonstrated outstanding performance in relation to the learning outcomes prescribed for Mathematics 10

Recommended Prerequisite: Successful completion of Advanced Mathematics 11

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Mathematics 12 / Advanced Mathematics 12 (2004)

Core Resources

- Mathematical Modeling: Book 3 (2001) Student Text / Teacher's Resource. This is to advise that the department is not investing in further production of Mathematical Modeling, Book 3 (Stock Code: #22846), the textbook for Mathematics 12 and Advanced Mathematics 12. There seems hardly any demand for the text this year and little anticipated in the two years thereafter. The DoE shall be providing new resources to support the implementation of new grade 12 mathematics courses in September 2015. Given declining enrolment, you may wish to collect surplus copies that are no longer needed in your schools for redistribution in other schools if necessary over the next three years.
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
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- DoE assessment or parts of it and will administer on their own and mark as they do all their school exams. They will move to Grade 10 effective 2013-14.
- Our High School Math Advisory group, met on Wednesday, March 23rd, 2011, and developed a Placement Document that will help in our students choosing high school math courses that they can be successful in consultation with their teacher, Guidance Counselor and parents. These documents were being used beginning in the 2011-2012 school year.
 - David Pilmer has developed a series of Mathematics 49 videos for the NSCC Adult Learning Program (ALP). Topics include Sinusoidal Functions, Quadratic Functions, Systems of Equations and more. To view the videos visit the website <http://www.youtube.com/watch?v=eaG4px5o5vs>
 - Looking for quality assessment items for tests, quizzes, student discussions, etc. Check out the Grades 7-12 Item Bank at <http://itembank.ednet.ns.ca>. A Login ID and Password are required to access this site. You can obtain this from the Department of Education, at 424-4258 or by emailing itembank@gov.ns.ca.
 - Student Workbooks for the APEF Mathematics curriculum of Math 10, 11, and 12 from a teacher in NFLD is a resource available to our high school math teachers. The workbooks contain hundreds of fully worked examples and over 1500 practice exercises. Check it out at <http://www.sharpe-mathematics.com>

Pre-Calculus Mathematics 12 (Adv) PCAL12

(BJSHS, FHCS, LRHS, NGRHS, PVEC)

Prerequisite: Successful completion of Advanced Mathematics 11 and Advanced Mathematics 12 *or* Successful completion of Mathematics 11 and Mathematics 12 and have demonstrated very good to outstanding performance in relation to the learning outcomes prescribed for Mathematics 11 and Mathematics 12

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Pre-Calculus Mathematics 12 / (Implementation Draft 2002)

Core Resources

- Mathematical Modeling: Book 4 (2002) Student Text / Teacher's Resource
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
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Calculus 12 (Adv) CAL12

(FHCS, LRHS, NGRHS, NQRHS, PVEC)

Prerequisite: Successful completion of Pre-Calculus Mathematics 12

Provincial Guide

- Calculus 12 (Implementation Draft, December 2004)

Core Resources

- [Calculus](#): Graphical, Numerical & Algebraic Student Text / Teacher's Resource
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
- Our High School Math Advisory group, met on Wednesday, March 23rd, 2011, and developed a Placement Document that will help in our students choosing high school math courses that they can be successful in consultation with their teacher, Guidance Counselor and parents. These documents were being used beginning in the 2011-2012 school year.
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Math for the Workplace 12 (Grad) MWP12

(BJSHS, FHCS, NGRHS, NQRHS)

Prerequisite: Successful completion of one mathematics course at the grade 10 level and one mathematics course at the grades 11 or 12 level

Provincial Guide

- Math for the Workplace 12 (Draft, Nov 2007)

- plans to develop and pilot Business Math module (2011-2012), implement (2012-2013)
- This credit can not be used as one of the two required math credits but can be used as one of the credits for the additional two credits needed for the compulsory math/science/technology area.

Core Resources

- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
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Mathematics Foundations 12 (Grad) MTH12FND

(LRHS, NGRHS, NQRHS, PVEC)

Prerequisite: Successful completion of Mathematics Foundations 10 or Mathematics 10

Recommended Prerequisite: Successful completion of Mathematics Foundations 11 or Mathematics 11

Provincial Guide

- Atlantic Canada Mathematics Curriculum: Mathematics Foundations 12 (Implementation Draft 2001)

Core Resources

- Constructing Mathematics: Book 3 (2000) Student Text / Teacher's Resource
- http://lrt.ednet.ns.ca/PD/HS_Math_Website/High_School_Math.html
- A provincial license of Autograph v3.3 has been purchased for all high schools, including Adult High Schools. This provides unlimited access to this software at all high school sites. Two support resources: Autograph Activities: Teacher Demonstrations and Autograph Activities: Student Investigations will also be sent out (March 2011)
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