Wahpe Woyaka pi

(T a l k i n g L e a f)

South Dakota Council Teachers of Mathematics Newsletter

Presidential Ponderings

I can hardly believe it! Another year is fast coming to a close. Even though I know that May inevitably comes, its arrival always manages to surprise me. There is always one more activity, one more concept, one more project that I want to cram into the already full schedule. Just as certainly as there was a first day, comes the last day. No more time remains for another lesson. Final exams are taken, and the red grade book closes for another year.

With the last semester exam scored and final grades recorded, I hope to finally have the luxury of time to think, ponder, and plan. As I recall the past year's triumphs and disappointments, I like to reflect upon my classroom, curriculum, and practice. There will always be places to update and improve.

Speaking of improvements and updates: Planning is underway for the 2009 revision of South Dakota's mathematics content standards. Several teams will be working throughout the summer to update and improve math standards for grades K-12. The input of mathematics educators from all levels is critical for success of this project. At the time of this writing, the team selections have not yet been announced. Thank you to all who applied for positions on the revision committee. Congratulations to those who will ultimately be chosen. It is certain to be demanding, yet rewarding work.

Prom, track meets, spring fever, graduation… sometimes it feels like math is not my students' top priority. How do you deal with distracted students this time of year? What's your "secret weapon" for grabbing and holding their attention? Do you have a favorite activity or tried-and-true approach for curing spring fever? Please drop me a line and share your good ideas (and maybe even some failed attempts!) Enquiring minds want to know.

As the busy school year rapidly comes to a close, I wish you a season of rest, reflection, and restoration. I plan to take time for family, friends, and fun--and then come back to my classroom refreshed and ready for another year of joys and challenges!

Cindy Kroon
SDCTM President

SUMMER 2009

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Inside this issue:

SD DOE seeks Teachers for 2010 Dakota STEP Workgroups	*2-3*
SDCTM's Wiki	*4*
Match Three!	*5-7*
SDCTM Membership Form	*8*
SDCTM Contact Info	*9*

Calendar Notes:

- *June 19, 2009 SDCTM Summer Symposium*
- *February 4-6, 2010 SDCTM/SDSTA joint conference in Huron*

SD DOE seeks Teachers for 2010 Dakota STEP Workgroups

Throughout the year, the South Dakota Department of Education hosts workgroups responsible for addressing issues related to the state's assessment system. The U.S. Department of Education has directed South Dakota to develop more diverse work groups to address the state's assessment system. Teachers from various grade levels, along with special education teachers and teachers of English language learners are needed to serve on these workgroups. Participants will help to shape the future of South Dakota's standards and assessment system, and the state, as a whole, will benefit from the expertise of these professionals. **Please consider nominating teachers from your district to participate in this important process.**

The Department of Education will reimburse participants for mileage, meals, (state rate) and lodging and will pay a stipend of $125.00 per day (8 hours of work). We will reimburse the district $70 per day for substitute pay if this workgroup meets during the school year.

These professional development activities provide teachers with opportunities to utilize their experience to impact of the Dakota STEP assessment.

Below is a list of workgroups that the SDDOE will convene to help create the **2010 Dakota STEP** assessment. For each teacher you nominate, you will need to complete the online Nomination Form. Please make sure you choose the correct URL when nominating your teacher. Below is the URL to nominate your teachers:

Name	2009 Date(s)	Nomination Web site
Dakota STEP Science Alignment Grade 5	9 / 15	https://apps.sd.gov/doeforms/octa/nominations/?id=13
Dakota STEP Science Alignment Grade 8	9 / 15	https://apps.sd.gov/doeforms/octa/nominations/?id=12
Dakota STEP Science Alignment Grade 11	9 / 15	https://apps.sd.gov/doeforms/octa/nominations/?id=11
Dakota STEP Reading Alignment Grade 3-5	9 / 15 & 9/ 16	https://apps.sd.gov/doeforms/octa/nominations/?id=18
Dakota STEP Reading Alignment Grade 6-8	9/15 & 9 / 16	https://apps.sd.gov/doeforms/octa/nominations/?id=17
Dakota STEP Reading Alignment Grade 11	9 / 15	https://apps.sd.gov/doeforms/octa/nominations/?id=16
Dakota STEP Math Alignment Grade 3-5	9 / 15 & 9 / 16	https://apps.sd.gov/doeforms/octa/nominations/?id=15
Dakota STEP Math Alignment Grade 6-8	9 / 15 & 9 / 16	https://apps.sd.gov/doeforms/octa/nominations/?id=14
Dakota STEP Math Alignment Grade 11	9 / 15	https://apps.sd.gov/doeforms/octa/nominations/?id=19

*** (You may need to copy and paste these links into a new web browser.)

DSTEP Science Alignment; Grade 5, 8, & 11--September 15; Sioux Falls, SD.
These teachers will need to have knowledge in Science at the appropriate grade levels (Gr 5, 8, and 11 only). They will judge the extent that the assessment items or tasks align with a set of content standards in both content and cognitive level and classify items into performance level categories to provide an examination of the degree to which the assessment has sufficient breadth to cover the performance level expectations. Needed are teachers at grades 5, 8 and 11, teachers of English Language Learners, and special education teachers.

DSTEP Reading Alignment; Grade 3-8--September 15-16; Grade 11—September 15; Sioux Falls, SD.
These teachers will need to have knowledge in Reading at the appropriate grade levels (Gr 3-8, and 11). They will judge the extent that the assessment items or tasks align with a set of content standards in both content and cognitive level and classify items into performance level categories to provide an examination of the degree to which the assessment has sufficient breadth to cover the performance level expectations. Needed are teachers at grades 3-8 and 11, teachers of English Language Learners, and special education teachers.

DSTEP Math Alignment; Grade 3-8--September 15-16; Grade 11--September 15; Sioux Falls, SD.
These teachers will need to have knowledge in Math at the appropriate grade levels (Gr 3-8, and 11). They will judge the extent that the assessment items or tasks align with a set of content standards in both content and cognitive level and classify items into performance level categories to provide an examination of the degree to which the assessment has sufficient breadth to cover the performance level expectations. Needed are teachers at grades 3-8 and 11, teachers of English Language Learners, and special education teachers.

Once the workgroups have been selected in early August, I will email the selected teachers more details concerning this work. So please check your email early August. The SDDOE looks forward to working with your teachers. If you or your teachers have any questions, please direct them to me by calling (605) 773-3247 or sending an email to: Gay.Pickner@state.sd.us.

Gay Pickner
Director of Assessment
DOE/OCTA
700 Governors Drive
Pierre, SD 57501
605-280-3613 (cell)
605-773-3247 (office)

If you are interested in participating in one of these workgroups, please visit with your administrator, as they **must nominate you for this work.

Share the Wealth!

South Dakota Teachers have so much to offer one another!
Please share an activity or classroom "trick" that works for you with SDCTM members!

Email submissions to: smcquade2@sfcss.org

SDCTM to Review Position Papers using a WIKI

SDCTM is currently reviewing and revising our position statements.

"..which will be granted to all members of SDCTM."

Visit

http://sdctm.wikispaces.com

to offer suggestions/ make modifications.

SDCTM is currently reviewing and revising the position statements for the organization. SDCTM currently has five position papers that have been approved since 1998. The position papers are Mathematical Background of Teachers of Mathematics, Mathematics Leadership in Elementary Schools, Professional Development, Use of Technology, Educational Partnerships, and Mathematics Education Resources.

We need to review these position papers and perhaps modify and/or add to these statements. To reduce costs, we are going to try to have a volunteer committee do these electronically. The six position papers are located at http://sdctm.wikispaces.com/

A wiki is a fancy name for a website that members can modify. The most common example is wikipedia. There is a video link for directions for modifying the wiki listed on the front page.

To make modifications, you will have join the wiki, which will granted to all members of SDCTM. This is a great way to get involved with your organization. You don't need to drive anywhere for a meeting, just submit your responses and idea. There is a discussion tab where you enter questions or comments about the position papers. Please note that there is also listed one NCTM position paper that is there for your reference.

If there is a position that you don't feel SDCTM is addressing or you disagree with a position, now is the time to get involved. We do want to vote on these position papers at our next general meeting, so please submit and requests and responses by October 1.

If you have any questions, please feel free to contact any officer listed in this publication.

Bill Gripentrog
Past President, SDCTM

Share the Classroom Treasures

"Sharing" the treasures was so popular this year, that it will be back for next year's conference. As you sort through your treasures and "pack up" for the summer...don't forget about the conference. Start a "save it for the conference" box and plan to bring all your "extras" to the Share the Classroom Treasures, scene 2.

PLEASE - No Textbooks or broken/non-working equipment. Although it may feel like yours, make sure it is. If it's marked "School Property", please leave it at school.

Match Three!

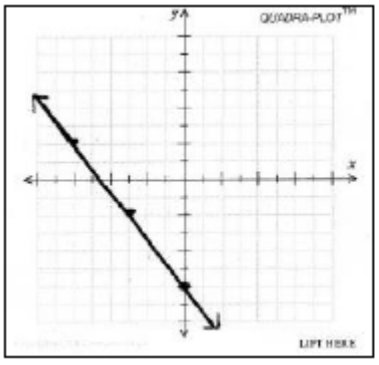
Equation and graphing practice for 2 or 3 players
SD Math Standard 9-12.A.4.1
Students are able to use graphs, tables, and equations to represent linear functions.

Object of the game: Capture groups of 3 matching cards
Preparation: Copy and cut apart the set of game cards

1. Sort game pieces and place graph cards face-up on table.
2. Shuffle the equation and table cards together. Deal two cards to each player. Place remaining cards face-down for a draw pile.
3. Player #1 matches one of the cards in his hand to a graph by placing it on top of the appropriate graph. Player 1 then draws one card from the discard pile to end his turn.
4. Player #2 plays one card from his hand, then draws one card from the discard pile to end his turn.
5. Play alternates until all cards are used.
6. The player placing the third card in a group of three (graph + equation + table) captures the set of three cards. Players may only capture a group during their turn.
7. If a player makes an incorrect match, he must return the card to his hand, and loses his turn

Play continues until all groups are captured.

A matching set of three cards:



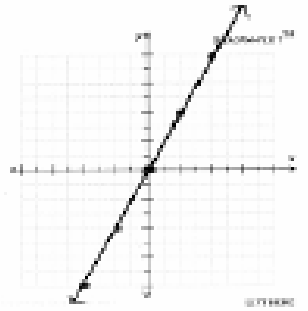
$Y = -4/3\ X - 6$

X	Y
-6	2
-3	-2
0	-6

Cindy Kroon
Montrose High School
cindy.kroon@k12.sd.us

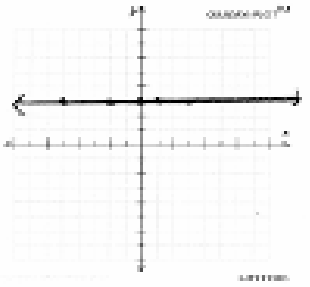
X	Y
0	0
2	4
4	8
-2	-4
-4	-8

$y = 2x$



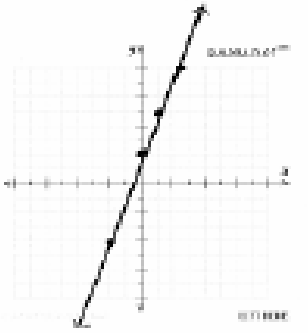
X	Y
0	3
1	3
3	3
-2	3
-5	3

$y = 3$



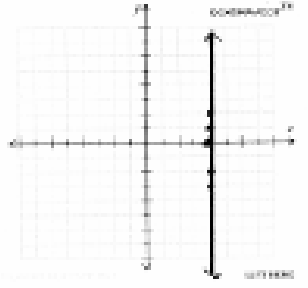
X	Y
0	2
1	5
2	8
-2	-4
-4	-10

$y = 3x + 2$



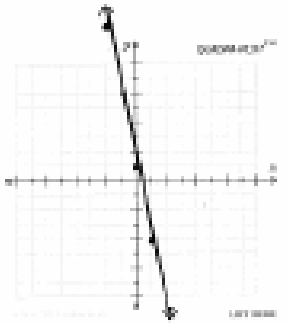
X	Y
4	0
4	2
4	1
4	-3
4	-2

$x = 4$



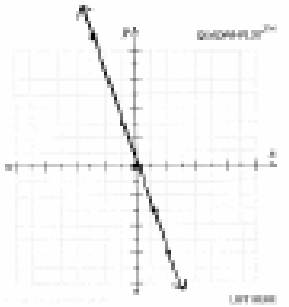
X	Y
0	1
1	-4
2	-9
-1	6
-2	11

$y = -5x + 1$



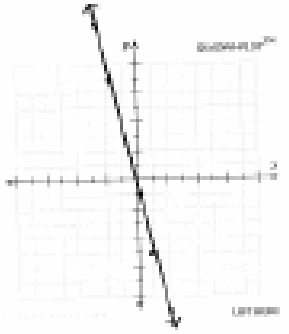
X	Y
0	0
1	-3
2	-6
-1	3
-3	9

$y = -3x$



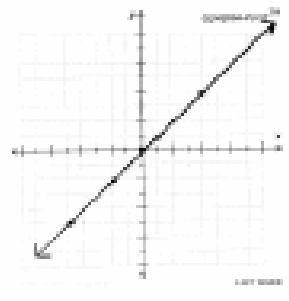
X	Y
0	-1
1	-5
2	-9
-3	11
-2	7

$y = -4x - 1$



X	Y
1	1
4	4
0	0
-2	-2
-5	-5

$y = x$



Print a copy of this form. Mail with check payable to SDCTM to:

Diana McCann
41876 Apple Tree Road
Springfield, SD 57062

Name_____

School Name _____

Subjects or Grades Taught_____

Addresses

Home _____

_____

School _____

_____

Mailing Address: _____ Home _____School

Home Phone _____

School Phone _____

Fax Number _____

E-mail _____

Membership categories (Check only one)

_____ Elementary School $5.00
_____ Middle School / Junior High $20.00
_____ High School $20.00
_____ Post Secondary $20.00
_____ Retired $5.00
_____ Student $5.00

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