Teaching Students to Effectively Communicate in Mathematics: Strategies for Learning to Speak and Write Fluently in Math (Grades 6-12)

NEW Seminar Presented by BEATRICE MOORE LUCHIN
Outstanding Secondary Math Teacher and National Presenter

Specially Designed for Educators Serving Grades 6-12:
Middle School Mathematics Teachers, High School Mathematics Teachers, Math Interventionists/Specialists, Special Education Staff, Instructional Aides, and Administrators

- **Dozens of practical strategies** to build students’ oral and written communication skills in grades 6-12 mathematics
- Research-based techniques to **develop students’ content vocabulary and conceptual understanding** of mathematics
- Practical, classroom-proven writing activities that **prepare secondary students for performance-based assessments** that include significant writing tasks
- **Highly effective tools** to increase students’ opportunities to speak and write about mathematics in ways they actually enjoy!

2016 SCHEDULE

**Arizona**
Phoenix – April 13 (Mesa)
AZ Clock Hours Available

**Missouri**
Kansas City – April 12 (Independence)
MO/KS Inservice Credit Available with Prior District Approval

**Nebraska**
Omaha – April 11
NE Inservice Credit Available with Prior District Approval

**Oregon**
Portland – April 15
OR Professional Growth Hours Verification Available
WA Clock Hours Available

**Washington**
Seattle – April 14 (Bellevue)
WA Clock Hours Available

“By far, the best professional development ever! Bea gave us so many materials and techniques I can use in my classroom. Thank you!”

– MARY LESLIP, MATH TEACHER
Ten Key Benefits of Attending

1. **Learn About Teaching Discussion and Writing Skills in Math from a Secondary Mathematics Teacher**
   Take advantage of the unique opportunity to learn from an award-winning secondary math teacher who knows the oral and written communication skills secondary students need to master … Tips, tools and proven techniques that work!

2. **Focus on the Speaking and Writing Skills Your Students Need Most**
   Discover dozens of highly effective techniques to teach your secondary math students the critical communication skills they need to succeed … How to build students’ confidence in speaking and writing about mathematics in ways they will enjoy!

3. **Discover Timesaving Writing Techniques that Yield Impressive Results**
   See significant student progress in writing by taking less than 10 minutes a day to teach writing skills … Discover how the ability to clarify and organize thoughts for writing significantly improves mastery in mathematics

4. **Implement a Variety of Effective Discussion and Writing Activities in Math**
   Look at a mix of proven discussion and writing activities designed for secondary math classes … Quick talks, quick writes, partner writes and small group activities that build students’ skills and boost their confidence to communicate in mathematics

5. **Acquire Valuable Data from Students’ Communications in Mathematics**
   Writing often reveals gaps in student learning that can help you intervene in a timely way … Discover specific, easy-to-use strategies for using written diagnostic assessments

6. **Use “Math Talks” and Writing to Support Differentiation of Instruction in Math**
   Discover highly effective ways to use oral and written activities to address the diverse needs of students in your math classes … How to tailor discussions and writing assignments to support students who struggle and challenge those who are ready for more

7. **Increase Time-on-Task and Retention Through Speaking and Writing**
   Explore the value-added results of teaching students how to discuss and write about mathematics … See how these skills can provide quick, varied instructional activities that bolster student learning

8. **Use Speaking and Writing to Develop Fluency with Mathematics Content**
   State standards require students to be fluent speakers and writers of the mathematics they are learning and use those literacy skills to convey understanding of a variety of conceptual and procedural applications … Discover literacy building activities that support this linkage in ways that bring more meaning to mathematics for your students

9. **Enhance Student Performance on Standards-Based Assessments**
   Tap into a variety of strategies for daily speaking and writing in math that build students’ capacity for success on summative performance tasks … Techniques that develop students’ understanding and confidence to meet the demands of varied writing tasks

10. **Build Student Confidence as Problem Solvers**
    See how discussion techniques and writing activities boost students’ abilities to think mathematically, solve problems and justify their thinking … Receive a variety of effective oral and written communication strategies that support reflective thinking, appropriate classroom discourse and reasoning.
Outstanding Strategies You Can Use Immediately

- **Dozens of highly effective techniques** for teaching critical speaking and writing skills secondary students need in mathematics
- Proven strategies to **build students’ confidence in speaking and writing about math** in ways they will enjoy
- How to use daily speaking and writing activities to **enhance students’ performance on standards-based assessments**
- Effective and engaging **oral and written tasks that require 10 minutes or less** of your valuable instructional time
- Specific ideas for **interactive mathematics notebooks** to support writing in mathematics
- Summarization strategies that support **reasoning and sense-making** abilities in mathematics
- How to use **quick talks and quick writes, partner writes and small group discussion and cooperative writing** to build students’ math skills
- Useful tips for providing **structure to students who lack organizational skills** needed to communicate their reasoning
- **Specific, easy-to-use strategies** for using oral and written diagnostic assessments in your math classes
- Research-based strategies to support **content vocabulary development**
- How to use graphic organizers to **support prewriting activities**
- Proven ways to **use “math talks” and writing activities to address the diverse needs** of secondary math students
- Unique ways to **increase time-on-task and retention** through discussion and writing
- How to use structured discussion and writing to **make math instruction more relevant to your students**
- **Ready-to-use strategies for problem solving** that not only require students to present answers but also to explain their reasoning

“Awesome seminar! Bea gave quick strategies we can take back and use instantly. All the information was useful. I look forward to sharing what I learned with the rest of my math team!”

– ANGIE GAUB, 6TH GRADE MATH TEACHER

To Register, Call Toll-Free

1-800-735-3503
Dear Colleague:

Prepare to see tremendous benefits in student performance from the incorporation of focused “math talks” and writing in your secondary mathematics classroom. This seminar has been thoughtfully developed by me, a secondary mathematics teacher, with you and our students in mind!

Communication in mathematics, particularly writing, has become significantly important with the new state standards and their emphasis on students’ ability to demonstrate their understanding of the concepts, skills and applications of mathematics. It is no longer possible for our students to simply know how to solve problems. In addition, they need to be able to logically and coherently discuss and explain in writing how and why they reached their solution. Very few students have the skills to do this, so as secondary mathematics teachers it is our responsibility to teach them these critical communication skills. The best way to do that is to ensure that we also teach them how to speak and write about mathematics.

Communicating in mathematics is a win-win for both teachers and students and it is well worth the effort. I have seen my students make significant gains in understanding mathematics by learning to speak and write about it. Their performance on state summative assessments has notably improved and their ability to discuss mathematics and understand the procedures, algorithms and problem solving skills they need to know has skyrocketed. In addition, the quick, frequent writing tasks my students do in class give me the data I need for planning my instruction and identifying which students need additional assistance or challenge.

During our fast-paced day together, you will learn about specific techniques and valuable tools for teaching your students how to speak and write in mathematics, beyond just getting some thoughts down on paper. I have developed and collected a variety of practical techniques and useful strategies to show how using only 10 minutes or less a day to support vocabulary and conceptual development, along with verbal and written communication skills, has made a substantial difference for both me and my secondary mathematics students.

I look forward to enhancing your comfort and knowledge of engaging your students in speaking and writing in the secondary mathematics classroom, in ways that will pay extensive dividends for you and your students.

Sincerely,

Bea Moore Luchin

P.S. The focus of this seminar will be on proven, practical strategies that you can use immediately to teach your secondary students in grades 6-12 the skills they need to master speaking and writing about mathematics.
Uniquely Qualified Instructor

In addition to being a secondary mathematics teacher and a popular presenter, Bea is a past board member of the National Council of Teachers of Mathematics (NCTM), the author of several secondary mathematics textbooks and author of Teaching Students to Effectively Communicate in Mathematics: Strategies for Learning to Speak and Write Fluently in Math (Grades 6-12), the extensive resource handbook each participant will receive at the seminar.

Spending a day with Bea is a highly valuable experience. She is well aware of current demands on secondary math teachers and she knows how to meet the needs of today’s students by enhancing their ability to communicate in mathematics particularly through speaking and writing.

Join Bea for a fast-paced, thought-provoking, highly practical day filled with valuable strategies, tips and tools you can use immediately to teach your students the critical communication skills they need in mathematics.

What Your Colleagues Say About Bea Moore Luchin

“Very informative! Thanks for all the relevant strategies that can be put into classroom use immediately!”
– Lisa Bernabe, K-12 Math Supervisor

“A day well spent! Bea is a wonderful presenter who gave us many great ideas and much food for thought!”
– Joanne Rees, Middle School Math Teacher

“I loved Bea’s enthusiasm! I was finally able to see how I can implement reading and language arts strategies in teaching mathematics!”
– George Mitessner, High School Math Teacher

“I came away with many great techniques I can start using right away. Bea is knowledgeable and entertaining!”
– Michele Hadlock, Quest Teacher

“Organized presentation. Useful and practical information. Strategies that are easy to implement without being overwhelming!”
– Theresa McKeown, Gifted and Talented Teacher

“This was a great collection of strategies to use in any classroom, not just math! Thank you for helping me see multiple representations in a new light!”
– Dan Czuchta, High School Math Teacher

“I really appreciate the writing ideas for math! They’ll help boost my teaching and the learning skills of my students!”
– Doug Graham, Middle School Math Teacher

“Excellent seminar! I’m taking away a lot of valuable tools to use in the classroom. Bea kept us engaged!”
– Jessica Cagno, 6th Grade Math Teacher

“This training hit the sweet spot! Thank you for the opportunity to be a part of forward teaching!”
– Brandon Lyons, High School Math Teacher

“Bea is an amazing teacher and presenter. Fantastic ideas, modeled brilliantly!”
– Allayne Sundt, Curriculum Resource Teacher

“Wonderful seminar with valuable resources and ideas I am going to implement right away! Thank you!”
– Nancy Close, Math Interventionist

“Bea is excellent – knowledgeable, personable, clearly an expert. Great activities, excellent strategies. Helped me think in new ways!”
– Nicole Comiskey, Middle School Math Teacher
Special Benefits of Attending

On-Site Training
Most BER seminars can be brought to your school or district. See the options at www.ber.org/onsite or call 877-857-8964 to speak to one of our On-Site Training Consultants.

Extensive Resource Handbook
Each participant will receive an extensive resource handbook specifically designed for this seminar. The handbook includes:

- Practical strategies for creating a literacy rich environment in the secondary mathematics classroom
- Graphic organizers to support “math talks,” prewriting, note taking, problem solving, vocabulary, and concept development
- Dozens of ready-to-use writing samples and reproducibles you can use immediately
- Research-based communication and writing strategies to positively impact student learning in mathematics
- A wealth of strategies to incorporate oral and written communication in daily mathematics instruction

Meet and Share
This seminar provides a wonderful opportunity for participants to meet and share ideas with other educators interested in teaching essential speaking and writing skills in their secondary mathematics classes.

Consultation Available
Bea Moore Luchin will be available at the seminar for consultation regarding your questions and the unique needs of your own secondary mathematics program.

Semester Credit Option
One graduate level elective credit is available with an additional fee and completion of a follow-up practicum project. Details for direct enrollment with Brandman University, part of the Chapman University system, will be available at the seminar.

Meet Inservice Requirements
At the end of the program, each attendee will receive a certificate of participation that may be used to verify hours of participation in meeting continuing education requirements.

Can’t Attend?
Other Professional Development Options:

Convenient Online Courses
BER offers educators a wide range of online courses that are affordable, fun, fast, and convenient. BER is now offering On Demand Video-Based courses as well as Scheduled Instructor-Led courses. You also may earn optional graduate-level credits for most courses. See the catalog of available courses at www.ber.org/onlinelearning

Teaching Students to Effectively Communicate in Mathematics: Strategies for Learning to Speak and Write Fluently in Math (Grades 6-12)

RESOURCE HANDBOOK
by Beatrice Moore Luchin

Bureau of Education & Research
Who Should Attend
Educators Serving Grades 6-12: Middle School Mathematics Teachers; High School Mathematics Teachers, Math Interventionists/Specialists, Special Education Staff, Title I Staff, and Administrators.

Program Hours
All seminars are scheduled 8:30 a.m. - 3:15 p.m. Check-in 8:00 a.m. - 8:30 a.m.

Fee
The registration fee is $239 per person, $219 per person for groups of five or more registering at the same time. Call us at 1-800-735-3503 for groups of ten or more. Payment is due prior to the program. No cash please. Fee includes seminar registration, morning coffee and tea, a personalized certificate of participation, and an extensive resource handbook.

Cancellations/Substitutions
100% of your paid registration fee will be refunded if you can’t attend and notify us at least 10 days before the seminar. Late cancellations can exchange for a certificate to attend another seminar or will be refunded less a $15 service fee. Substitutions may be made anytime without charge.

Further Questions
Call the Bureau of Education & Research (800) 735-3503 or visit us online at www.ber.org. The Bureau is North America’s leading presenter of seminar training for professional educators. Programs are based on sound research, are highly practical in content and consistently receive excellent evaluations.

Meeting Sites and Hotel Accommodations
Seminars will be held at the following sites:
- Omaha: Aksarben Suites, (402) 397-5141
- Phoenix: Windemere – Mesa, (480) 985-3600
- Portland: Ambridge Event Center, (503) 239-9921; hotel accommodations available at Crowne Plaza Convention Center, (503) 233-2401
- Seattle: Sheraton – Bellevue, (425) 455-3330
If needed, please make your own hotel reservations by calling the appropriate hotel listed above.

Possible Funding Sources
Elementary and Secondary Education Act funds, including Title I School Improvement Grants; Title VI; Title VII; Restructuring grants; At-Risk grants, Bilingual/ESL and Migrant Education funds; IDEA; Demonstration School funds; Parent Teacher Organizations; and Inservice Training funds.

Program Guarantee
We stand behind the high quality of our programs by providing the following unconditional guarantee: If you are not satisfied with this program, we’ll give you a 100% refund of your registration fee.
Teaching Students to Effectively Communicate in Mathematics: Strategies for Learning to Speak and Write Fluently in Math (Grades 6-12)

Registration (MLM6S1)

☐ 1. Kansas City (Independence), MO – April 12, 2016
☐ 2. Omaha, NE – April 11, 2016
☐ 3. Phoenix (Mesa), AZ – April 13, 2016
☐ 4. Portland, OR – April 15, 2016
☐ 5. Seattle (Bellevue), WA – April 14, 2016

FIRST NAME   M.I.   LAST NAME

POSITION, SUBJECT TAUGHT   GRADE LEVEL

SEMINAR LOCATION NUMBER: ___________ (Please see list above)

List additional registrants on a copy of this form

E-MAIL ADDRESS

HOME MAILING ADDRESS

CITY & STATE   ZIP CODE

SCHOOL PHONE NUMBER   HOME PHONE NUMBER
(    ) (    )

Registration confirmations are sent via e-mail. If you would like a confirmation, please provide your e-mail address.

E-MAIL ADDRESS

HOME MAILING ADDRESS

CITY & STATE   ZIP CODE

IMPORTANT: PRIORITY ID CODE   EMLM6S1

FOUR EASY WAYS TO REGISTER:

PHONE toll-free: 1-800-735-3503 (M-F 6 a.m. - 6 p.m. PST)

FAX this form to: 1-425-453-1134

MAIL this form to:
Bureau of Education & Research
915 118th Avenue SE - PO Box 96068
Bellevue, WA 98009-9668

REGISTER ONLINE at: www.ber.org

METHOD OF PAYMENT

The registration fee is $239 per person, for groups of five or more registering at the same time, the fee is $219 per person. Payment is due prior to the program. No cash please.

☐ A check (payable to Bureau of Education & Research) is attached

☐ A purchase order is attached, P.O. # ____________________________

(Be sure to include priority ID code on the P.O.)

☐ Charge my:     ☐ MasterCard     ☐ VISA     ☐ Discover

Account # ____________________________ Exp. Date: ______/____ MO/yr

Billing Zip Code: ____________________________ 3 Digit CVV Code: ____________________________

(Found on back of card)

Please print name as it appears on card

Signature (required for credit card purchases)

© 2016 Bureau of Education & Research. All rights reserved.