

Teaching Student-Centered Mathematics

Creative and Concrete Ways to Develop Algebraic Thinking

Presented by Jennifer Bay-Williams, co-author with John Van de Walle, et al.

Thursday, March 26 OR Friday, March 27

Algebraic thinking permeates all of mathematics and is essential for making sense of mathematical situations in everyday life. Come see how algebraic thinking is an extension of multiplicative and proportional reasoning and ways to help your students develop this fundamental skill of thinking algebraically! Join Jennifer Bay-Williams as we explore geometric and numeric patterns, and discover creative ways to model with mathematics that will help students better understand algebraic concepts. Participants will:

- Connect number to algebra through generalizing patterns, including meaningful and engaging ways to understand and apply properties
- Explore ways to develop strong symbol sense (variables, equal sign, and inequality symbols)
- Engage in many fun and real growing patterns to explore equations and function concepts



Jennifer Bay-Williams is a professor of mathematics education at the University of Louisville. She is on the NCTM Board of Directors and has been a regular contributor to NCTM teacher journals and yearbooks, and has authored/co-authored numerous books about effective mathematics teaching in K-12. She has served on the board of directors for TODOS; Equity for All and as president of the Association of Mathematics Teacher Education (AMTE). Dr. Bay-Williams taught elementary, middle and high school in Missouri and in Peru. She enjoys working in classrooms at all levels with both students and teachers, and presents across the U.S. and internationally on effective teaching practices in K-8 mathematics.

Domain 1: Planning & Preparation - Component 1a: Knowledge of Content and Pedagogy Elements:

- Knowledge of Content and the Structure of the Discipline
- Knowledge of Prerequisite Relationships
- Knowledge of Content-related Pedagogy

Audience:	Middle Grades Mathematics Teachers, Special Education/Co-Teachers, Curriculum Coordinators, and Instructional Coaches
Date:	Thursday, March 26, 2015 <u>OR</u> Friday, March 27, 2015
Location:	GRREC office, 230 Technology Way, Bowling Green, KY 42101
Time:	8:30-3:30 (CDT) Registration and Breakfast will begin at 8:00 a.m. (Lunch is on your own.)
Materials:	Teaching Student-Centered Mathematics, Second Edition Volume III
Cost:	\$100 per person for GRREC districts: \$200 per person for non-GRREC districts

Registration Form

Teaching Student-Centered Mathematics *Creative and Concrete Ways to Develop Algebraic Thinking*

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Check One Date to Register or Click the Link Below to Register Online:

_____ **Thursday, March 26** [Click Here to Register Online](#)

_____ **Friday, March 27** [Click Here to Register Online](#)

Please Print:

Name: _____ Position _____

Grade Level: _____ P.O. # _____
(Required for registration)

Work Email Address: _____ Cell Phone: _____

School District: _____ School: _____

Note: School district (or school) will be billed following the activity based upon registration. Cancellations must be made within five (5) working days of the activity to avoid being billed. Substitutions will be allowed.

Register online with the above links, or fax this form to GRREC at (270) 563-2208.

Registration Deadline: Tuesday, March 24, 2015

Sponsored by

Green River Regional Education Cooperative
230 Technology Way, Bowling Green, KY 42101

Phone: (270) 563-2113 **FAX: (270) 563-2208** Toll Free 1-866-318-6648

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For more information on this workshop, contact Kim Estes

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