

Kentucky High School Mathematics Formative Assessment Project

William S. Bush
Center for Research
in Mathematics and
Science Teacher
Development

UNIVERSITY OF LOUISVILLE

Purpose

To provide Kentucky high school teachers support in using formative assessments in Algebra I, Geometry, and Algebra II classes in order to help students who have fallen behind in these courses

Formative assessment allows teachers to transform assessment from the master to the servant.

--Dylan Wiliam

Timeline (18 months)

Spring & Summer 2009	Form teams and Develop tools
Fall 2009	Develop and Test tools
Spring 2010	Revise tools and Create PD
Summer 2010	Conduct PD

Definition of Formative Assessment

Formative assessment is a process used by teachers to gather information during instruction that provides feedback about students in order to adjust ongoing teaching to improve students' achievement of intended learning outcomes. -- KDE and CCSSO

Components of Formative Assessment

- Gather information about student learning and thinking
- Determine what students know and don't know
- Use effective questioning strategies to assess understanding or proficiency
- Provide effective feedback to students
- Remediate student mathematical misconceptions and errors
- Use student peer-assessment and self-assessment

Nature of Assistance

Formative Assessment Tools

- Prerequisite trees
- Sample items, tasks, and questions
- Common student errors/misconceptions
- Strategies for addressing errors/misconceptions

Formative Assessment

- Professional Development
- Summer workshops
- Monthly meetings
- Classroom visits

Algebra I

Sheryle Nussbaum, U of L Staff
Wanda Weidemann, Western Kentucky University, Co-Chair
Vivian Moody, Western Kentucky University, Co-Chair
Maggie McGatha, University of Louisville
Mary Rising, University of Louisville
Margaret Mohr-Schroeder, University of Kentucky
Nicole Brock, Corbin High School
Betty Brazzell, Fulton County High School
Emily Butler, Eastern High School
Jeani Gollihue, Greenup High School
Penny Alderman, Rowan County High School
Linda Montgomery, Morehead State University
Wanda Riddle, Paul Blazer High School
Debbie Waggoner, Woodford County Schools

Project Teams



Geometry

Jane Jones, U of L Staff
Gina Foletta, Northern Kentucky University (Co-Chair)
Beth Noblitt, Northern Kentucky University (Co-Chair)
Robert Hebble, Kentucky State University
Wiley Williams, University of Louisville
Don Bennett, Murray State University
Laura Bristol, Kentucky Center for Mathematics
Susan Collins, Elizabethtown High School
Aaron Timmons, Bryan Station High School
Stephen Cyrus, Rowan County Schools
Freddie Napier, East Ridge High School
Erin Rhody, Anderson County High School
Craig Schroeder, Jessie Clark Middle School
Allison Young, Hopkins County Central High School

Algebra II

Jim Austin, U of L Staff
Christy Perry, Morehead State University (Co-chair)
Mike Dobranski, Morehead State University (Co-chair)
Margaret Yoder, Eastern Kentucky University
Sarah Murray, Centre College
Richard Argueta, Nelson County High School
Tonda Dunn, Iroquois High School
Jeremy Miller, Lee County High School
Kim Estes, Warren East High School
Judy Pennington-Price, Jackson County High School
Lance Robinson, Grant County High School
Tracey Ruble, Somerset Ind. High School
Jim Whitaker, Graves County High School

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