



SOUTHERN DELAWARE PROFESSIONAL DEVELOPMENT CENTER

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MATHEMATICS CONTENT-SPECIFIC OFFERINGS OF THE SDPDC

FOCUS:

Grades 7-12 in the areas of:

- Pre-Algebra
- Algebra I
- Algebra II
- Geometry
- Trigonometry
- Pre-Calculus
- Calculus
- Statistics

SERVICES:

- Data
 - Using data to guide instruction
 - Learning how to use available data from D.O.E. to identify areas of improvement
- DSTP preparation
 - Integrating sample DSTP questions into lessons
- Develop common assessments
 - Creation and implementation of common assessments to better improve instruction
- Common Workshops that focus on mathematics-specific professional development
- Current trends in mathematics
- Available resources in mathematics
- Differentiated Instruction
- Customized professional development
- Learning Focused® Certified Trainer
- Customized department assistance

- Allow the department to identify their own needs
 - Creating student learning projects in the area of statistics (over)
 - Best practices with diverse learning styles (specific to mathematics)
 - Unit alignment to GLE's and Standards
 - Best practices in formative and summative assessments
 - Examination of current state of Department
 - Focus on Self-assessment and evaluation
 - Alignment to Standards
 - Incorporating Understanding by Design into lessons and curriculum
 - Resources
 - Do we need any other resources?
- AP program design/support
 - Using technology in the mathematics classroom
 - Graphing calculators (TI-83, TI-83+, TI-84+)
 - Mathematical software for Algebra I
 - Microsoft Excel (creating graphs)
 - Introductory SMART Board assistance
 - TI-Navigator support
 - Individual Teacher Support
 - Interpretation, Implementation, and Alignment of Standards
 - Teacher Observation Support
 - Parental Communication
 - Best practices
 - Classroom management
 - Provide sources for lesson plans
 - Link to University of Delaware resources in mathematics