



**AERO: SBC (Standards-Based Curriculum)
at the Madeira School
Mathematics Institute
www.projectaero.org
June 18-23, 2017**

The Mathematics Institute is designed to increase the capacity of elementary and middle school teachers to lead improvements in the teaching of mathematics in their schools by developing a deeper understanding of the AERO/Common Core Plus Standards. The goals of the institute are that participants will increase their understanding of:

- The mathematical content and skills contained in the AERO/Common Core Plus Framework
- How conceptual understanding, knowledge and skills build from year to year in mathematics
- Which are the critical areas in mathematics at each grade level
- How to best teach and assess students so that they become mathematically proficient

Institute participants will:

- Review and interpret the AERO standards, Common Core standards, and International Benchmarking and analyzing the relationship among them;
- Investigate how mathematical conceptual understanding, knowledge and skills build from grade level to grade level;
- Examine the critical areas of instruction at each grade level and discuss strategies for ensuring student proficiency in these areas;
- Analyze the math practices and explore how to build these into daily instruction;
- Review standards-based unit design and begin thinking about using this design to develop units for your students;
- Review depth of knowledge (Webb's D.O.K.) levels for the standards and critique assessments to determine what level of rigor they require;
- Explore how to use standards-based formative and summative assessment to make instructional decisions;
- Explore different instructional models for teaching mathematics.

Participants may choose to take this course for university credit from the State University of New York at Buffalo. Applications will be available in the spring. For course participants earning university credit, the cost is \$390.00. (For participants who are *not* earning university credit, there is no charge for the workshop.)

This workshop will be limited to 20 participants. Preference will be given to schools sending two person teams although individuals will be considered as well.

Please send, email, or fax the completed registration form by **March 3, 2017** to:

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