



**AERO Summer Institute  
At Marymount University  
Math, Grade 8-12  
[www.projectaero.org](http://www.projectaero.org)  
June 24-28, 2019**

## **Implementing a Mathematics Curriculum Focused on Modeling and Problem Solving**

Engaging students in meaningful mathematics requires planning. In order to engage students in meaningful mathematics, teachers must first make sense of the learning progressions, then select tasks that support developing student understanding of the content and they must plan on how to engage students in the mathematical practices.

The AERO Summer Math workshop is designed for mathematics teachers, 8-12, who want to make math more accessible and richer. It is an opportunity to plan with Graduates of the AERO Math Specialist in International Schools and Mathematics Fellows in International Schools who are implementing the AERO Math Standards.

The goal of the institute is to build a solid foundation of the learning progressions and apply that knowledge to planning for student engagement in the Standards for Mathematical Practice. Participation will provide participants the opportunity to deepen their knowledge and understanding of the AERO Mathematics Standards through the following:

- Identifying and adapting high cognitive demand tasks aligned to the learning targets that foster problem solving and discourse with a focus on modeling; and
- connecting inquiry-based strategies to the Mathematical Practices to inform real- world connections;

Throughout the experiences, participants will continuously connect what they learned to the ideas of focus, coherence, and rigor that should be evident in daily mathematics instruction for all students. Focus provides the opportunity to teach for depth. Coherence insures that the mathematics taught is connected to mathematics within the same grade or course and mathematics across topics in other grades or courses. Planning for rigor ensures that both concepts and procedures are emphasized as students solve problems and make sense of mathematics. Participants will leave the Institute with a developed plan for moving forward within the context of their school needs.

This Institute will be limited to 20 participants. Registration will be on a space-available basis. Schools are encouraged to send a team of academic leaders.

Please send, email or fax the completed registration form by **March 1, 2019** to:

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