

Rethinking Math via STEM

Presenter:

Bruce Weinberg, science, math and STEM teacher at Kalapuya High School in Eugene, Oregon

Participants:

- Middle and high school teachers from districts interested in fostering deeper math thinking and improving student problem solving on Oregon state work samples
- Any district or school administrator interested in creating a math course that will support STEM curriculum

Details:

Lane County Institute:

Kalapuya High School
Thursday and Friday
June 19-20
9 a.m. to 3:30 p.m.
Register:
www.lesd.k12.or.us/workshops

Douglas County Institute:

Douglas County ESD
Monday and Tuesday
June 23-24
9 a.m. to 3:30 p.m.
Register:
<http://www.douglasesd.k12.or.us/index.php/educators-2/2012-04-03-16-09-05>

Participants will receive \$300 stipends for these two-day hands-on Institutes. Total combined participation for Institutes limited to 30.



Pile of Sand Calculator

(sample problem)

You are employed by a sand and gravel company. You are asked to create an Excel spreadsheet calculator that will allow another employee to estimate the weight and volume of a very large pile of sand and the number of trucks required to move it. The goal is that an employee, by pacing off the circumference of the pile and with only a tape measure to measure the slope, can estimate within 5% the volume, weight and number of trucks required to move the pile.

Learn about:

- Moving from textbook-driven instruction to a project-based math curriculum that supports STEM instruction and Common Core thinking
- Developing deep understanding, flexibility and mathematical grit in middle and secondary math students
- Developing a Pre-algebra through Algebra II curriculum that is rooted in STEM activities and problem solving
- Accomplishing this on a limited budget and with limited prep time

For more information about Institute eligibility, contact Dr. Marilyn Olson: olsonm@uoregon.edu or 541-346-2881.

For specific mathematics/science content questions, contact Bruce Weinberg: bruce.weinberg@bethel.k12.or.us

To register in Lane County, visit Lane ESD registration link at left or contact Bob Curtis: bcurtis@lesd.k12.or.us

To register in Douglas County, visit Douglas ESD registration link at left or contact Analia Nicholson: analia.nicholson@douglasesd.k12.or.us

The Institutes are part of the Mastering Mathematical Literacy & Logic ($M^2 L^2$) Project, College of Education, University of Oregon, in partnership with Lane and Douglas Education Service Districts.

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