

MATHEMATICS AS A SECOND LANGUAGE



Location:

**Champlain Elementary
School
Burlington, VT**



Vermont Mathematics Initiative Professional Development Offering

This course will be held on the following dates:

Saturday, January 20: 8:00-3:00
Wednesday, January 31: 2:00-5:00
Saturday, February 17: 8:00-3:00
Tuesday, March 5: 8:00-3:00
Wednesday, March 27: 2:00-5:00
Wednesday, April 17: 2:00-5:00
Saturday, May 4: 8:00-3:00
Wednesday, May 8: 2:00-5:00

Tuition: \$1953 (with 3 VTSU Graduate Credits); \$1650 (no credit). Includes all materials and lunch on the full day session.

Instructor:

Susan Ojala, VMI (susan@vmimathematics.com)

To register:

Visit <https://www.surveymonkey.com/r/HZPMKWC> or
contact Judi Laird (judi@vmimathematics.com)

Teachers need to understand the fundamental principles that underlie school mathematics, so that they can teach it to diverse groups of students as a coherent, reasoned activity and communicate and appreciate the elegance and power of the subject.”

(Mathematical Education for Teachers II, 2012)

Current Vermont state achievement data in mathematics indicate significant achievement gaps between students with disabilities and the general population, as well as a general decline in mathematics learning for all students. Making mathematics accessible to all students is challenging and requires educators have a strong understanding of mathematics to reach all students in the classroom. This course provides for a deep understanding of the basic themes of arithmetic as well as the inter-relationships among arithmetic, algebra, and geometry. A major theme of *Mathematics as a Second Language* is the understanding of arithmetic and algebra through language.

Participants will explore the mathematics content related to these topics, the intimate relationship among them, and the important pedagogical strategies and skills educational research suggests can have a strong impact on student learning.

Participants of this course will work collaboratively to solve problems and experience how problem solving is an integral part of instruction. They will come to recognize the importance of multiple representations of mathematical concepts and multiple solution strategies and how discourse in the classroom supports learning.

Upon successful completion of this course, participants will have preferred status should they decide to apply to the VMI's master's program, with these credits transferring into the program.