

Building Upon the Foundation: Building Additive Reasoning and Computational Fluency

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A Mathematics Institute for Primary Graded Teachers

Prerequisite: Laying the Foundation or by permission

Course Description:

This 3 - credit graduate course will focus on examining research with regards to how students construct understanding of addition and subtraction and the relationship between them, analyzing strategies students use, and exploring various ways to assess and promote additive reasoning.

Objectives:

- Examine research about how students construct understanding of addition and subtraction and the relationship between them
- Investigate and analyze how students develop and use strategies for addition and subtraction
- Explore ways to assess and promote a deeper understanding of addition and subtraction and to develop fluency of basic number combinations

Dates:

January 7, 14, 21, 28, February 4, 11, 18, March 4, 11, 18, 25, April 1, 2010
3:45 - 7pm

Location:

LAPDA Meeting Space,
Montpelier, VT

Cost:

\$625 for members
\$770 for nonmembers

* Additional \$327 for 3 credits from Castleton State College.

* Graduate Credits are Optional *

Registration:

<http://www.lapdavn.org>

Call (802) 224-9110
for more information

About the Instructor

Loree Silvis is an experienced primary-grade teacher who left the classroom several years ago to delve deeply into the cognitive research on how young children construct understanding of important foundational mathematical concepts. In support of early educators, she led the development of two graduate level courses which focus on number and additive reasoning and she facilitates these courses throughout Vermont. Currently she is exploring the parallels between how children construct an understanding of language and how they construct number sense. Loree recently completed her fourth year as the Primary Level Mathematics Specialist with the Vermont Mathematics Partnership at The Vermont Institutes in Montpelier and has begun a new consulting business, Cornerstone Mathematics Consulting (CMC). CMC offers a range of professional development opportunities for primary and elementary educators.