

A Mathematical Exploration for Practicing Special Education and Classroom Teachers:

Additive Reasoning, Multiplicative Reasoning, Proportional Reasoning and Rational Numbers

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Course Description

Appropriate for Teachers in Grade K-6

This course is designed for the practicing educator (referred to as participant) to develop a stronger understanding of the mathematics and research about how students learn mathematics in the areas of: additive reasoning, multiplicative reasoning, proportional reasoning, and rational numbers. We will begin with a review of the National Math Panel Report and the NCTM Focal Points to focus on the “non-negotiable” content within the school math curriculum. Each math topic will be addressed within the context of understanding student work and the strategies that will assist professionals to work with students who struggle in these areas of mathematics. Participants taking this course will need to have access to three to five students who have a variety of mathematical abilities.

Learning Objectives:

- * Participants will become familiar with the body of mathematical research about how students learn and understand mathematics.

- * Participants will be able to identify a student’s developing understandings in the areas of additive, multiplicative, proportional reasoning and rational numbers.

- * Participants will increase their understanding of mathematics, specifically additive reasoning, multiplicative reasoning, proportional reasoning and rational numbers.

- * Participants will be able to construct and conduct clinical interviews that will answer the question, “How does Student X understand the mathematical topic being studied?”

- * Participants will be able to construct instructional plans based on the mathematical understanding of their students.

Dates:

July 5-9 and July 12-16,
2010 plus one two hour
session TBD

8-12:00pm

Location:

LAPDA Meeting Space,
Montpelier, VT

Cost:

\$575 for members
\$720 for nonmembers

* Additional \$285 for 3
credits from Saint Michael’s
College.

Registration:

www.lapdavn.org

Call (802) 224-9110
for more information

About the Instructor

Liz Petit Cunningham earned her Masters Degree from the University of Vermont. Liz is a 2008 graduate of the Vermont Mathematics Institute (VMI), she has been a classroom teacher for the past nine years and is currently the Middle School Math Interventionist at Barre City Elementary School. Liz is a member of the OGAP development team.