



## Constructing Number Sense

**Instructor:** Betsy Allen. M.Ed., COA, ETSD Math Coach

**Start Date:** May 26 (4:00 - 7:30) Face to Face June 20-23, 2016

\*\*Note: May 26<sup>th</sup> date allows teachers to administer an assessment that will be used during the course.

Target Audience: Grades K-3 Teachers

This 3 credit course will examine research on how students develop a deep understanding of number and mathematical thinking. Participants will look at both the learning progressions and the standards progression from concept of number to additive reasoning and fact fluency in the Vermont Common Core State Standards. The course will explore instructional and assessment strategies, analyze student work to identify where students are on a learning progression and plan next instructional steps. Participants will collaborate with other teachers to strengthen and/or develop their numeracy units, **including formative assessments** and instructional strategies and lessons, with **integrated technology**. The class will deepen their own content knowledge by interacting with materials, research based readings, and class discussions.

### Participants will:

- deepen their own content knowledge of numeracy and additive and algebraic reasoning.
- know and understand the applicable content and the learning progressions of the Common Core State Standards across grade levels.
- learn how to identify where students are on a learning progression by analyzing student work.
- develop a variety of instructional strategies to promote student learning including formative assessments as an instructional strategy.
- explore technology applications and games during the course to incorporate in their instruction.

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|------------------------|---|-------------------------------|
| <b>Start Date:</b>     | May 26, 2016                                | <b>Time:</b> 4:00 - 7:30 pm   |
| <b>Face to Face:</b>   | June 20-23, 2016                            | <b>Time:</b> 8:00am – 4:00 pm |
| <b>Fall follow-up:</b> | September 19, 2016                          | <b>Time:</b> 4:00 - 7:30 pm   |
| <b>Location:</b>       | CVEDC, 123 Ethan Allen Ave., Colchester, VT |                               |
| <b>Cost:</b>           | \$1000 CVEDC Members                        | \$1100 Non- CVEDC Members     |

**(includes 3 St. Michael's grad credits and 2 texts)**

choice of either NCTM: *Developing Essential Understanding of Number & Numeration, PreK-2* OR NCTM: *Developing Essential Understanding Addition and Subtraction PreK-2* AND  
Conklin & Sheffield, *It Makes Sense! Building Number Sense with the Hundreds Chart K-2* OR  
Conklin, *It Makes Sense! Using Ten-Frames To Build Number Sense, Grades K-2*

**All schools in Addison, Chittenden, Grand Isle & Franklin Counties are members.**

Register on-line: [www.cvedcvt.org](http://www.cvedcvt.org) For Questions [info@cvedcvt.org](mailto:info@cvedcvt.org)