



## Silicon Valley: A Laboratory for Learning Math Professional Development Initiative Summer/Fall Semester 2008-2009

*Laboratory for Learning is an initiative of the Silicon Valley Leadership Group in partnership with its member companies and Intel Corporation to help provide local K-8 teachers with tools to be successful in the classroom.*

- Teachers develop math skills through a content-rich **80-hour course**.
- The **Intel Math** curriculum is derived from a professional development program that successfully links course completion with improved student achievement.
- The math content (90%) focuses on number theory, operations, functions, and algebra; the interrelatedness of arithmetic, algebra and geometry; and presents mathematics as a second language.
- The instructional content (10%) includes topics on: representations, differentiation, manipulative, and how students make sense of equality, place value, and fractions.
- A mathematician and mathematics educator will co-facilitate the course.
- The **80-hour Intel Math** will take place from August to February. The first session during **August 2008**; the second session spread out during the first semester of the 2008-2009 school year.
- Participants are required to attend both sessions, attend all training dates, complete homework, and complete evaluation surveys.
- Participating teachers who complete the entire 80 hours will receive a \$1000 stipend courtesy of the Silicon Valley Leadership Group. (Participants may elect to receive graduate course units through CSU-East Bay and the remaining balance of the stipend in lieu of the whole amount).
- All training and course materials are free.

<b>August 11-15, 18-19</b>
<b>September 20</b>
<b>October 18</b>
<b>November 1, 15</b>
<b>January 10, 2009</b>
<b>February 7, 2009</b>

• **Training Dates\*:**

**Lead Sponsor**



**Silicon Valley Leadership Group**

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\*Silicon Valley Location TBA,  
Each training day will run from  
approximately 9:00-4:00

## Big Ideas!

- **Arithmetic, geometry, and algebra are closely intertwined and not separate subjects**
- **Mathematics is problem solving**
- **Mathematics as a second language**
- **Alternate visual representations can help illuminate the mathematics associated with a problem**
- **There are many ways to solve a problem**
- **In mathematics, we strive for the simplest possible explanation**

## Expectations!

1. Positive Attitude
2. Active Participation
3. Patience
4. Curiosity
5. Persistence
6. Commitment
7. Risk Taking
8. Punctual Daily Attendance
9. Support of Collegial Learning Community
10. Timely Completion All Assignments
11. Become a More Confidant Mathematician

### Past Participants Had to Say:

“I thought that the math curriculum not only helped me to remember certain topics, but also helped me to better explain those topics in my classroom.”

“All the trainers were knowledgeable and very helpful.”

“It opened my eyes to different ways students might learn math.”

