Chris Dell, Director of K-12 Math & Technology
Judy Flores, Assistant Superintendent of Instructional Services
Mission: Working together as a community to provide all students with all options for education and training after high school to pursue a successful, fulfilling career.

- 2010-11: REACH HIGHER Shasta Initiative
- 2011-12: Math Task Force; 8th grade focus
- 2012-13: High School Integrated Pathway
  - Articulation with Middle School; Acceleration plan
- 2013-14: HS Integrated Math 1 (& Math 2)
  - Curriculum Discussion; Articulation with MS
High Schools Collectively chose the CCSSM Integrated Course pathway

- The integrated high school course pathway is a more balanced presentation of the material over the 3 year program than the traditional alg-geo-alg approach.

- Linear and Exponential functions (no quadratics) focus in Math 1 is mathematically coherent.

- Consistent with the focus and coherence of K – 8 mathematics content

- CC Algebra 1 ≠ 1997 CA Algebra 1 , etc. (less parent/teacher misconceptions)

- Life is integrated.
The MS & HS Math grade level integrated course pathway

- This approach is typically seen internationally (Integrated) that consists of a sequence of three courses, each of which includes number, function, algebra, geometry, probability and statistics.

Courses in higher level mathematics:
- PreCalculus, Advanced Statistics, or other higher math course (not AP Calculus).

- Grade 11: Mathematics III
- Grade 10: Mathematics II
- Grade 9: Mathematics I
- Grade 8: CCSS Math 8
- Grade 7: CCSS Math 7
**MS & HS Math Honors integrated course pathway**

- The three grade level HS integrated pathway courses that also includes the CCSS plus (+) standards (PreCalculus Standards) appropriately aligned to each conceptual cluster and distributed *evenly* among the three courses.

- The MS honors courses are cover the same content standards as defined in the CCSSM for grade 7 & 8, but with greater depth and more emphasis on higher cognitively complex tasks.

*Courses in higher level mathematics:*

- AP Calculus, Advanced Statistics, or other high math course.

- Grade 11: Advanced Math III
- Grade 10: Advanced Math II
- Grade 9: Advanced Math I
- Grade 8: Honors CCSS Math 8
- Grade 7: Honors CCSS Math 7
Articulation with Middle and High School teachers
- Instructional Resources, Modeling, Teaching the Why & Where before the How, Assessment, Placement, etc.

Focus sessions for teaching math for conceptual understanding and procedural fluency.

Integrated High School Honors course development
- Aligning the Precalculus standards with the Math 1, 2 & 3 course standards.
Successes and Challenges

- **Successes**
  - “Integrated” allows for shift from the How to Why and Where
  - Relevance; problem solving tasks

- **Challenges**
  - Transfer students; gaps in learning
  - Teachers not knowing how to implement instructional strategies to best align to standards and SMPs: Dependence on curriculum
  - Parent communication

- Both: Reading, writing and collaboration in the math class