

# Mathematics Pathways

Presentation to the State Board of Education  
July 10, 2014



Long Beach Unified School District

# Traditional Sequence With Compacted Option

## Rationale and considerations:

- Teacher leader feedback (Science, Math)
  - STEM pathway preparation/support
  - Familiar organization amidst dramatic change in content and pedagogy
  - Teachers not having ‘deep knowledge’ in *all* areas
  - Discrete approach facilitates laser focus and deeper exploration and connection to other contexts

# Instructional Resources

- District-developed CCSS Scope and Sequence documents
- District-developed CCSS Unit Guides with SBAC-aligned assessments
- Current core adoption (2008) – CA HSP, Holt
- CCSS-aligned supplemental resources:
  - *Early Mathematics: A Resource for Teaching Young Children*, The Charles A. Dana Center at the University of Texas at Austin, 2012
  - *California Common Core Math*, Houghton Mifflin Harcourt, 2013
  - *Explorations in CORE Math for Common Core*, 2013

# Professional Development

- 2012-13: K-12 Trainer of Trainers delivery: instructional shifts, CCSS-aligned 'drop-in' units, formative assessment modules
- 2013-14: K-12 Face to Face delivery: new CCSS-aligned curriculum units, standards/practices study, instructional strategies (9 hours required)
- 2014-15: K-12 Face to Face delivery: new curriculum units, standards/practices study, balanced assessment (18 hours required)
- 2015-16: K-12 Face to Face delivery: new instructional resources (core text adoption), standards/practices study, balanced assessment (18 hours required)
- 2016-17: K-12 Face to Face topic-based (teacher choice)
- **Communities of Practice at K-12 school sites**

# Acceleration Options

- Accelerated (compacted) Math 6
  - Accelerated (compacted) Math 7
  - Algebra I in grade 8
  - Accelerated and Honors courses – high school
- late entry via summer  
(2015) bridge support

# Implementation Challenges

- Deepening teacher content knowledge
- Continuing need to *focus* course content
- Availability of aligned core textbooks (2014-15 adoption cycle)
- Parent reluctance to embrace CCSS Math 8 course