Hacienda La Puente Unified School District

An Overview of the Common Core State Standards for Mathematics

Today's Objectives

- Explain what you need to know about the Common Core
- Update on math pathways and acceleration
- What can you do as a parent to help your child be successful in mathematics

Who wrote the standards? How did my state adopt them?

- Developed by state education leaders with input from teachers, parents and education experts.
- Over 40 states have signed and adopted the new Common Core Standards.

Where did the Common Core come from? Did we really need new standards?

- The new standards will get students ready to be college and career ready.





What are the Common Core Standards?

- **A single set of standards** adopted nation-wide for English language arts and mathematics
- **A blueprint** to help students and parents set clear and realistic goals for success

- **An example of a CCSS Math Standard for 2nd grade:**
  - Fluently add and subtract within 100 using strategies based on place value, properties of operations and/or the relationship between addition and subtraction.

How are the standards different from previous state standards?

K-2	Addition and subtraction-concepts, skills, and problem solving; place value
3-5	Multiplication and division of whole numbers and fractions-concepts, skills, and problem solving
6	Ratios and proportional relationships; early expressions and equations
7	Ratios and proportional relationships; arithmetic of rational numbers
8	Linear algebra and linear functions; geometry

Highlights of Major Work in Grades 9-12

9	Integrated Math I: Algebra 1, Geometry, Some Statistics
10	Integrated Math II: Algebra 1 and Algebra 2, Geometry, Some Statistics
11	Integrated Math III: Algebra 2, Geometry, Statistics, Trigonometry, Pre-Calculus
12	Pre-Calculus, AP Calculus, Statistics, AP Statistics, or Technical Career Courses

HLPUSD MATH PATHWAYS: COLLEGE PREP AND ACCELERATED COURSE SEQUENCES

Common Core State Standards for Mathematics INTEGRATED PATHWAY			
COLLEGE PREP Course Sequence		**ACCELERATED Course Sequence**	
Grade:	**Course Title:**	**Grade:**	**Course Title:**
K	Math K	**K**	Math K
1	Math 1	**1**	Math 1
2	Math 2	**2**	Math 2
3	Math 3	**3**	Math 3
4	Math 4	**4**	Math 4
5	Math 5	**5**	Math 5
6	Math 6	**6**	Math 6 Honors
……*Decision Point for Acceleration*……			
7	Math 7	**7**	Math 7 Honors *and* Math 8 Honors
8	Math 8	**8**	Integrated 1 Honors
9	Integrated 1	**9**	Integrated 2 Honors
10	Integrated 2	**10**	Integrated 3 Honors
11	Integrated 3	**11**	Pre-Calculus or Calculus AB/BC or Advanced Math or AP Stats
12	Pre-Calculus or Calculus or AP Stats	**12**	

5	Math 5	**5**	Math 5
6	Math 6	**6**	Math 6 Honors
……*Decision Point for Acceleration*……			
7	Math 7	**7**	Math 7 Honors *and* Math 8 Honors
8	Math 8	**8**	Integrated 1 Honors
9	Integrated 1	**9**	Integrated 2 Honors
10	Integrated 2	**10**	Integrated 3 Honors
11	Integrated 3	**11**	Pre-Calculus or Calculus AB/BC or Advanced Math or AP Stats
12	Pre-Calculus or Calculus or AP Stats	**12**	

How and why is math different in Common Core?



Content Standards

- **Ratios and Proportional Relationships**-Analyze relationships and use them to solve real-world and mathematical problems.
- **The Number System**-Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- **Expressions and Equations**-Use properties of operations to generate equivalent expressions.
- **Geometry**-Draw, construct and describe geometrical figures and describe the relationships between them.
- **Statistics and Probability**-Use random sampling to draw inferences about a population.

COMMON CORE
STATE STANDARDS INITIATIVE
PREPARING AMERICA'S STUDENTS FOR COLLEGE & CAREER

Mathematical Practice Standards

1. **Make sense of problems and persevere in solving them.**
2. **Reason abstractly and quantitatively.**
3. **Construct viable arguments and critique the reasoning of others.**
4. **Model with mathematics.**
5. **Use appropriate tools strategically.**
6. **Attend to precision.**
7. **Look for and make use of structure.**
8. **Look for and express regularity in repeated reasoning.**

Are the Common Core Standards and the new assessments the same thing?

- SBAC (Smarter Balanced Assessment Consortium) tests are administered in grades 3-8 and 11 in English language arts and math aligned to the Common Core State Standards
- Computerized testing begins this year!
- Local assessments will be used to improve instruction and also align with the Common Core State Standards

Test Questions Include…

- Multiple Choice (Selected-response)
- Short Answer (Constructed-response)
- Answer with Justification (Extended-response)
- Using Computer Calculator (Technology-enhanced)
- Real Life Question in Multiple Parts (Performance task)

Go to www.hlpschools.org and click on California Common Core Standards (CCSS) under Featured Web Pages to find the Practice Tests link.

Short Answer - Grade 8

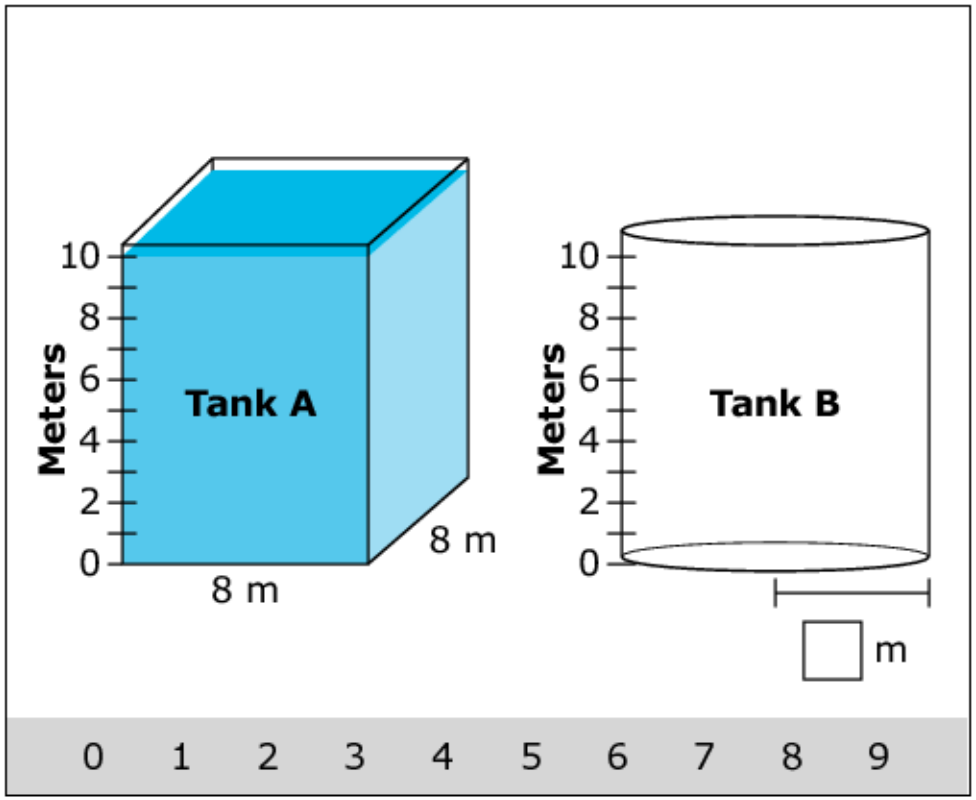
42968

Two water tanks are shown. Tank A is a rectangular prism and Tank B is a cylinder. The tanks are not drawn to scale.

Tank A is filled with water to the 10-meter mark.

Click Tank A to change the water level. The volume of water that leaves Tank A is transferred to Tank B, and the height of the water in Tank B is shown.

Drag one number into the box to show the approximate radius of the base of Tank B.



How can you help your child in math?

- Know that the struggle is okay; it takes time to learn things
- Praise the process
- Guide children to resources that can help (textbooks, notes, etc.)
- Value math homework-encourage children to do more than just “get it done”
- Brochure – additional resources (handbook)

Partners in your child's future

- Hacienda La Puente Unified School District is committed to ensure your child being successful in Common Core State Standards for Mathematics.

QUESTIONS?



THANK YOU FOR COMING!