CALPRO Instructors Forum Webinar:

Making Program Changes to Address New Math Standards

February 6, 2015

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California Adult Literacy Professional Development Project (CALPRO)’s Electronic Community of Practice (e-CoP)
Web site:  http://calproecop.groupsite.com

CALPRO’s e-CoP is dedicated to helping adult educators reach higher together to improve students’ college and career readiness.

What can you do in the e-CoP?
- Improve your practice by learning from and with other educators who seek to increase their students’ college and career readiness
- Participate in Webinars, discussions, and other structured professional learning activities
- Exchange ideas, swap materials, and share resources
- Co-create materials and solve problems together
- Develop leadership skills in this type of networked professional learning
- Discover other CALPRO professional learning opportunities (facilitated and self-directed online courses on many different topics)
- Join in these and other activities, all free of charge for eligible adult educators (i.e., adult literacy providers working in programs funded through the CA Dept. of Ed., Adult Ed. Office)

For More Information
- Visit the e-CoP’s Web site at http://calproecop.groupsite.com
- Questions? Contact Catherine Green at the CALPRO office (cgreen@air.org or 1-800-427-1422, option 4)
How to Join the HSE Educators discussion of the CALPRO electronic Community of Practice

1: Visit home page of CALPRO e-CoP
http://calproecop.groupsite.com
Sign up (if you are not already a member) or log in (if you are a member). Sign up takes a minute; membership is approved within a day.

2. Once you are logged in, go to the Discussions area under the Communicate tab.

3. To get started, click on the discussion link for HSE Educators.

Subscribe option:
You may subscribe to the discussion if you prefer to participate by e-mail (like a listserv) rather than logging in to the site.

Updated 12/19/2014
Major Work of the CCR Adult Education Levels

Color key: Black = Number, Blue = Geometry, Red = Algebra, Green = Statistics and Probability

Level A (CCSS Grades K-1 / Beginning ABE):
- Developing understanding of whole number place value for tens, and ones
- Developing understanding of addition and subtraction and the properties of these operations
- Describing and reasoning about shapes and their attributes
- Developing understanding of linear measurement

Level B (CCSS Grades 2-3 / ABE I):
- Extending understanding of base-10 notation
- Adding and subtracting to 1,000; fluency to 100
- Understanding multiplication and division of whole numbers to 100
- Understanding division as inverse of multiplication; single-digit divisors
- Developing understanding of fractions, especially unit fractions
- Using standard units for linear measure
- Developing understanding of area and its relationship to addition and multiplication
- Analyzing 2-dimensional shapes

Level C (CCSS Grades 4-5 + 6 / ABE II):
- Extending the number system to positive rational numbers
- Extending place value understanding to decimals
- Attaining fluency with multi-digit operations using whole numbers and decimals
- Understanding fraction equivalence and comparison
- Developing fluency with sums and differences of fractions
- Connecting ratio and rate to whole number multiplication and division
- Writing, evaluating, and interpreting expressions and equations
- Developing understanding of the coordinate plane
- Classifying 2-dimensional shapes based on sides and angles
- Developing an understanding of volume and surface area
- Developing understanding of statistical variability

This document is not meant to be a substitute for the CCR standards for adult education; rather, it is meant to be used in conjunction with the CCR standards for adult education.

Produced for the College and Career Readiness Standards Implementation Institute by StandardsWork, Inc.
Level D (CCSS Grades 6 + 7-8 / ABE III):
Extending number sense and fluent operations to all rational numbers, including negatives
Understanding ratio and rate and using them to solve problems
Applying proportional relationships
Working with expressions and linear equations
Solving linear equations and systems of linear equations
Developing the concept of function
Graphing functions in the coordinate plane and analyzing their graphs
Classifying geometric figures based on properties
Solving problems involving scale drawings
Measuring 2- and 3-dimensional figures: area, surface area, and volume
Analyzing 2- and 3-dimensional shapes using distance and angle measurements, similarity, and congruence
Applying the Pythagorean theorem
Understanding patterns of association for bivariate data and describing them with a linear equation, when appropriate
Summarizing data and data distributions
Drawing inference about populations based on random samples (probability distributions)

Level E (CCSS Grades 9-12 / ASE I and II):
Extending understanding of number systems to the set of real numbers
Writing equivalent expressions involving radicals and integer exponents
Reasoning quantitatively through the use of units and appropriate levels of precision
Defining, evaluating, comparing, and modeling with linear, quadratic, and exponential functions and equations
Building, interpreting, and analyzing functions using correct notation
Reasoning with and solving linear, quadratic, and exponential equations and linear inequalities
Interpreting and using the structure of expressions to solve problems
Operating with algebraic expressions, including polynomials and rational expressions
Applying similarity and congruence concepts to geometric figures, including right triangles
Using geometric models to solve measurement problems involving volume
Summarizing, describing, displaying, and interpreting data
Understanding and applying probability concepts
Summarizing, representing, and interpreting one- and two-variable data, including using frequency tables
Sample Needs Survey

Survey - Academic Needs for Teachers

Type of Credential

Most experienced teaching:

What academic area would you like professional development offered?

What would you like to see offered for professional development?
- Technology
- Best practices
- Common Core State Standards
- College and Career Readiness Standards
- Increasing Rigor: Complex Text, Talk and Tasks

How many units beyond your Bachelors?
How many professional growth units have you earned since your B.A.
- Under 30 units
- Over 30 units, and under 45 units
- Over 45 units
- Other: [ ]

Submit
AUTHORIZATION TO RELEASE GED® TEST INFORMATION

I, ___________________________________________ (please PRINT your name)

authorize PearsonVUE GED® Test Center to release to:

ANTELOPE VALLEY ADULT SCHOOL

any information concerning my GED® test scores for the school’s mandated reporting requirements.

Date of Birth ___________________________________________

Social Security Number: _________________________________

Current Address: ________________________________________

______________________________________________________

Participant's Signature: _________________________________

Date: __________________________________________________
AUTHORIZATION TO RELEASE GED® TEST INFORMATION

I, ________________________________________________ (please PRINT your name)

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ANTELOPE VALLEY ADULT SCHOOL

any information concerning my GED® test scores for the school’s mandated reporting requirements.

Date of Birth ___________________ Social Security #: ______________________

Current Address: _______________________________________________________
_____________________________________________________________________

Participant's Signature: __________________________________ Date: _________________

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AUTORIZACIÓN PARA LIBERAR INFORMACIÓN SOBRE LA PRUEBA DE GED®

Yo, _______________________________ (por favor escriba su nombre)

Autorizo a PearsonVUE GED® Test Center para liberar cualquier información relativa a mi examen de GED® a:

ANTELOPE VALLEY ADULT SCHOOL

Incluyendo las puntuaciones para los reportes mandatorios de la escuela.

Fecha de nacimiento: _________________________________________________________

Número de Seguro Social: _____________________________________________________

Dirección actual: ____________________________________________________________
________________________________________________________________________

Firma participante: __________________________________ Fecha: _________________

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Resources from the World Wide Web

Taken from “California Professional Development Roadshow: Information, Resources, and Strategies for the Classroom”, compiled by Debi Faucette, Susan Pittman, and Bonnie Goonen
November 17, 2014
Reasoning through Language Arts

Aspen Institute. Materials for teaching close reading skills that are tied to standards. This site also provides leadership materials. http://www.aspendrl.org/portal/Home

Free Resources for Educational Excellence. Teaching and learning resources from a variety of federal agencies. This portal provides access to free resources. http://free.ed.gov/index.cfm


Purdue University's OWL. One of the most extensive collections of advice about writing found on the web. http://owl.english.purdue.edu/

RAFTS Northern Nevada Writing Project. The project includes print materials that may be purchased, as well as access to RAFTS prompts that can be generated electronically. http://www.unr.edu/educ/nnwp/index.html

ReadWriteThink. From the International Reading Association and the National Council of Teachers of English, this site has classroom resources and professional development activities in the area of integrated reading, writing, and thinking skills. http://www.readwritethink.org/


Mathematics

Annenberg Learner. Courses of study in such areas as algebra, geometry, and real-world mathematics. The Annenberg Foundation provides numerous professional development activities or just the opportunity to review information in specific areas of study. http://www.learner.org/index.html

Geometry Center (University of Minnesota). This site is filled with information and activities for different levels of geometry. http://www.geom.uiuc.edu/
Illuminations. Great lesson plans for all areas of mathematics at all levels from the National Council of Teachers of Mathematics (NCTM. http://illuminations.nctm.org


Khan Academy. A library of over 2,600 videos covering everything from arithmetic to physics, finance, and history and 211 practice exercises. http://www.khanacademy.org/


Math in the News. Media4Math. This site provides you with information/articles of how math is used in the real world. http://www.media4math.com/MathInTheNews.asp

Algebra 4 All. A website from Michigan Virtual University with an interactive site for using algebra tiles to solve various types of problems. http://a4a.learnport.org/page/algebra-tiles

Social Studies


Daryl Cagle's Professional Cartoonists Index! This site includes cartoons from over sixty cartoonists on a variety of topics, plus a teacher’s guide, games, and activities. The site stays current. http://www.cagle.com

DocsTeach – This site includes links to primary sources, lesson plans, activity ideas, and template to build your own lessons. http://docsteach.org/

Lessons for Economics. Developed through the National Foundation for Teachers of Economics, this site provides a variety of lessons for use in the classroom. http://www.fte.org/
**National Archives and Records Administration.** The website of the National Archives. All types of educational units and copies of national documents are available from this governmental site. [http://www.archives.gov](http://www.archives.gov)

**The History Channel.** The History Channel provides both historic and current topics, readings, audio and video recordings, and lessons for the classroom. [http://www.history.com/](http://www.history.com/)


**The Library of Congress.** The Library of Congress has historic documents, as well as timelines and articles that can be downloaded for classroom use. [http://www.loc.gov/teachers/](http://www.loc.gov/teachers/)


**Science**


**Annenberg: The Habitable Planet.** The Habitable Planet is a multimedia course for high school teachers and adult learners interested in studying environmental science. The Web site provides access to course content and activities developed by leading scientists and researchers in the field. [http://www.learner.org/channel/courses/envsci/index.html](http://www.learner.org/channel/courses/envsci/index.html)

**Annenberg Science in Focus: Force and Motion.** Explore science concepts in force and motion and come away with a deeper understanding that will help you engage your students in their own explorations. With science and education experts as your guides, learn more about gravity, friction, air resistance, magnetism, and tension through activities, discussions, and demonstrations. [http://www.learner.org/channel/workshops/force/](http://www.learner.org/channel/workshops/force/)

**Discovery Channel.** The website has lots more information than even the channel. Lots of interactivity with excellent videos, interactivity, and high-level games. [http://www.discovery.com/](http://www.discovery.com/)


**PBS: Science & Nature.** Highlights and background information on every Science-based PBS program on the air; check out the Science for the Classroom link. [http://www.pbs.org/science/](http://www.pbs.org/science/)

**Steve Spangler.** This site has lots of free experiments and videos for use in the classroom. [http://www.stevespanglerscience.com/lab](http://www.stevespanglerscience.com/lab)

**The Why Files.** University of Wisconsin, Board of Regents. Real world articles to support all areas of science. Click on the “Why Files in Education.” [http://whyfiles.org/teach/](http://whyfiles.org/teach/)
**Weather Classroom.** The Weather Classroom presents all kinds of online interactive resources for students and teachers; worth investigating.