



DOMINICAN UNIVERSITY of CALIFORNIA
SCHOOL of EDUCATION AND COUNSELING PSYCHOLOGY

Expand Your Knowledge of Common Core Math Standards
EDUO 9526
(15 hours - 1 unit)

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Course Description: Gain a deeper understanding of one domain within the Common Core Mathematics Standards. Working through course resources and mathematics websites, you will study one domain within your grade level standards. You will find activities to teach that match that domain and have a chance to reflect on them. You will also interact with other teachers to see what they have discovered.

Course Objectives:

1. Gain a deeper understanding of one domain within the Common Core Mathematics Standards.
2. Become familiar with the Mathematical Practices.
3. Learn how to use several mathematics websites in your teaching practice.
4. Teach three activities within your chosen domain.
5. Reflect on your teaching practice.

Products to turn in:

1. Two comments on the class Padlet wall
2. A report on each of the three activities chosen

Grading Rubric

Exceeds Expectations Exemplary: A+ to A-	Meets Standards B+ to B-	Unacceptable: resubmit
<ul style="list-style-type: none"> • Your two posts on our class Padlet wall are substantive, thoughtful, and reflective upon your own teaching practice. A clear tie to the Common Core standards is evident. • Your report has links to the three activities you taught, all of which come from the websites listed in this course. • Your report includes the Mathematical Practices which students were engaged in during each of the three activities with a comment explaining how the Mathematical Practices were being applied. • Your report includes a summary of the three activities, with a reflection on student learning. • Your report includes a thorough explanation of how your understanding of the Common Core standards increased as a result of each lesson. 	<ul style="list-style-type: none"> • Your two posts on our class Padlet wall are reflective upon your own teaching practice. A tie to the Common Core standards is evident. • Your report has links to the three activities you taught, all of which come from the websites listed in this course. • Your report includes the Mathematical Practices which students were engaged in during each of the three activities. • Your report includes a summary of the three activities. • Your report includes how your understanding of the Common Core standards increased as a result of each lesson. 	<ul style="list-style-type: none"> • You did not make 2 posts on our class Padlet wall, or the posts you made were not reflective, and had no tie to the Common Core State Standards. • Your report does not include links to your activities, or the activities don't come from the websites listed in this course. • Your report does not include a mention of the Mathematical Practices. • Your report does not include a summary of three activities. • Your report does not include how your understanding of the Common Core standards increased.

Materials Needed:

- A copy of the Common Core State Standards, which can be found on your County Office of Education or District website, or by following this link: CoreStandards.org
- Resources within course contents: Mathematical Practices Tools, Grade Level Flipbook, Activities from Websites.

SECTION 1: EXPLORATION OF RESOURCES:

Research- Focus on a Domain

Choose one domain in the Common Core math standards to focus on. You will be researching math concepts and lesson ideas specific to that domain. The domains are listed here. Each colored bar is a separate domain. Each domain contains your specific grade level standards.

Choose one:

K	1	2	3	4	5	6	7	8	High School
Geometry									
Measurement and Data						Statistics and Probability			
Number and Operations in Base Ten						The Number System		Functions	
Operations and Algebraic Thinking						Expressions and Equations		Algebra	
Counting and Cardinality					Number and Operations Fractions		Ratios and Proportional Relationships		Number and Quantity

Mathematical Practices

Become Familiar with the Mathematical Practices by viewing the course resources most appropriate to your grade level.

Research – Flipbooks

Use the attached Flipbooks to help guide your understanding of the domain you have chosen.

Research- Websites

Use the following websites to find classroom activities that will support your teaching of your chosen domain. You need to choose 3 activities from these websites that support your learning of your chosen domain. You will then reflect on these 3 activities.

- [Illustrative Mathematics](#) provides guidance to states, assessment consortia, testing companies, and curriculum developers by illustrating the range and types of mathematical work that students experience in a faithful implementation of the Common Core State Standards. Activities are organized according to specific Common Core grade level standards. They are complete with directions and teacher commentary. (K-12)
- [Inside Mathematics](#), is a professional resource for educators passionate about improving students' mathematics learning and performance. This site features classroom examples of innovative teaching methods and insights into student learning, tools for mathematics instruction that teachers can use immediately, and video tours of the ideas and materials on the site. Problems of the Month include rigorous lesson plans that deepen student understanding of mathematical concepts. The lessons often include student samples, teacher commentary, and ties to Mathematical Practices. (K-12)
- [Illuminations](#) is organized by the National Council of Teachers of Mathematics. It has lesson plans organized according to grade level spans and domains. (K-12)
- [LearnZillion](#) is a learning platform that combines video lessons, assessments, and progress reporting. Each lesson highlights a Common Core standard. Videos are clear representations of what each standard asks students to do. Helpful for student viewing, and teacher planning. (K-12)

SECTION 2: TEACH AND REFLECT

Teach the activities

Choose 3 activities you find on the websites to teach in your class. Make sure they fit the domain you have chosen. As you teach the lessons, keep in mind the categories you need to reflect on in your report.

Reflect

Read through the posts on our course Padlet wall. Then post 2 comments of your own. They can either be in response to a previous student's post, or an original post of your own

Submit a Report

Submit a report with links to the activities used and a reflection. See rubric for grading criteria. Use the form provided to ensure you meet all the criteria.

You have 9 months to complete all of your work for this course.