

Mathematics Diagnostic Testing Project

FALL
2016

MDTP A Tool for Teachers

Newsletter

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Common Core Aligned Field Tests

The MDTP Workgroup developed the following field tests to meet the curriculum alignment to the California Common Core State Standards for Mathematics:

- *Integrated Second Year Readiness Test*
- *Integrated Third Year Readiness Test*
- *Geometry Readiness Test*
- *Algebra 2 Readiness Test*

Each newly-designed test is now available for Fall 2016. Field-testing is a vital practice in the MDTP test creation process and we welcome all schools to participate in this important activity. Please contact the Site Director in your region for information about participation.



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Mathematics Diagnostic Testing Project

MDTP UPDATES

NEW TESTS and NEW WEBSITE

New MDTP Statewide Director

MDTP congratulates Bruce Arnold on his retirement from CSU/UC Director of MDTP. We thank Bruce for his many years of exemplary service and dedication to his work with districts, schools, teachers, and students across the state of California.

We welcome Dr. Kimberly Samaniego as our Project Director and Site Director for UC San Diego. Kimberly draws on 20 years of experience as a secondary teacher and chair of mathematics, intern instructor, and teacher-trainer across California. Kim looks forward to her new role of supporting secondary mathematics education throughout the state.

Launch of New Website

MDTP is pleased to launch our new website featuring user-friendly access to information, ordering, and Written Response Items. Please visit our new site at mdtp.ucsd.edu.

Written Response Items Available Online

All MDTP Written Response Items are now available online through our website. To access, use the horizontal menu and choose your favorite Items, complete with Essence Statements and Rubrics.

High School Readiness Item Field Test

MDTP created several new items for the High School Readiness Test that meet the content expectations in the Common Core classroom. The new test contains 30 items is available for Fall 2016. This assessment may be field-tested at anytime during the 2016-17 school-year in classrooms with students exiting Grade 8 or students currently in the first Common Core math course in high school. For information on field test participation, contact the Site Director in your region.

CCSSM Middle School Tests

MDTP successfully launched three CCSSM aligned tests in both paper and online versions:

- ◆ The **Grade 7 Readiness Test** covers Common Core topics from grades 3-6
- ◆ The **Grade 8 Readiness Test** covers Common Core topics from grades 3-7
- ◆ The **High School Readiness Test** covers Common Core topics from grades 3-8

RESPONSE TO SB-359

California Mathematics Placement Act of 2015

Senate Bill 359, which was enacted in October 2015, requires California local education agencies to implement a mathematics placement policy for students entering grade 9 that meets two specified criteria. To help agencies meet these requirements, the Mathematics Diagnostic Testing Project (MDTP) will pilot a program to develop tests that may be used in those placement policies. In particular, MDTP will develop placement tests for entering 9th grade students. These tests will be aligned to state-adopted content standards in mathematics (refer to SB- 359 Section 2 (1)).

For each pathway, traditional and integrated, MDTP will create an assessment that is aligned to the Frameworks for these pathways. These assessments will be designed as one measure to inform placement decisions into one of two levels of math: Algebra 1 or Geometry and Integrated Math 1 or Integrated Math 2. These assessments will be ready for field-testing in February 2017 in a field test version. It will be the responsibility of school, and/or districts to determine how they will interpret and use their student results data.

We recommend that schools and districts use existing MDTP readiness tests appropriate to students' courses in order to satisfy SB-359 criteria of assessing students once enrolled into their course with a diagnostic test within the first month of school (refer to SB-359 Section 2 (2)).

Since our placement plan is a pilot program, we expect to be continually revising our new assessments and asking schools for feedback data to inform the program's effectiveness. Information on ordering MDTP readiness tests and the placement assessment (Winter 2017) can be found on the MDTP website. To learn more about MDTP and its services visit mdtp.ucsd.edu.



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MDTP AVAILABLE DIAGNOSTIC TESTS

Test Name	Description	Test Code	Calculator Required	Test Status
Tests Aligned to the California Common Core State Standards for Mathematics				
Grade 7 Readiness	Measures readiness for a Grade 7 Math Common Core course. This test replaces Prealgebra Readiness.	7R40A15	No	Released 2015
Grade 8 Readiness	Measures readiness for a Grade 8 Math Common Core course or a compacted Grade 7/8 course. This test replaces Prealgebra Readiness.	8R40A15	No	Released 2015
HS School Readiness	Measures readiness for a first-year high school mathematics course such as Algebra I , Integrated Math I , or compacted Grade 8 Math and Algebra I/Math I Common Core courses. This test replaces Algebra Readiness.	HS45A15	No	Released 2015
Geometry Readiness	Measures readiness for a Geometry course following a traditional Algebra I Common Core course.	GR45D16	No	Field Test 2016 (first year)
Second Year Algebra Readiness	Measures readiness for an Algebra 2 or Intermediate Algebra course following a traditional Geometry Common Core course.	SR45D16	No	Field Test 2016 (first year)
Integrated Second Year Readiness	Measures readiness for an Integrated Mathematics 2 Common Core course.	IS45D16	No	Field Test 2016 (third year)
Integrated Third Year Readiness	Measures readiness for an Integrated Mathematics 3 Common Core course.	IT45D16	No	Field Test 2016 (third year)
Current Non-Common Core Released Tests				
Geometry Readiness	Measures readiness for a Geometry course following a traditional Algebra I non-Common Core course.	GR45A06	Optional	Released 2006
Second Year Algebra Readiness	Measures readiness for an Algebra 2 or Intermediate Algebra course following a traditional Geometry non-Common Core course.	SR45A06	Optional	Released 2006
Mathematical Analysis Readiness	Measures readiness for success in a trigonometry, precalculus, or mathematical analysis course.	MR45A08	Optional	Released 2008
Calculus Readiness	Measures readiness for success in a first-year calculus course offered in high school.	CR45A12	Optional	Released 2012
Older Released Versions are available for online ordering on mdtp@ucsd.edu				

Mathematics Diagnostic Testing Project

MDTP REGIONS

CORRESPONDING COUNTIES

MDTP SITES

SITE DIRECTORS and COORDINATORS

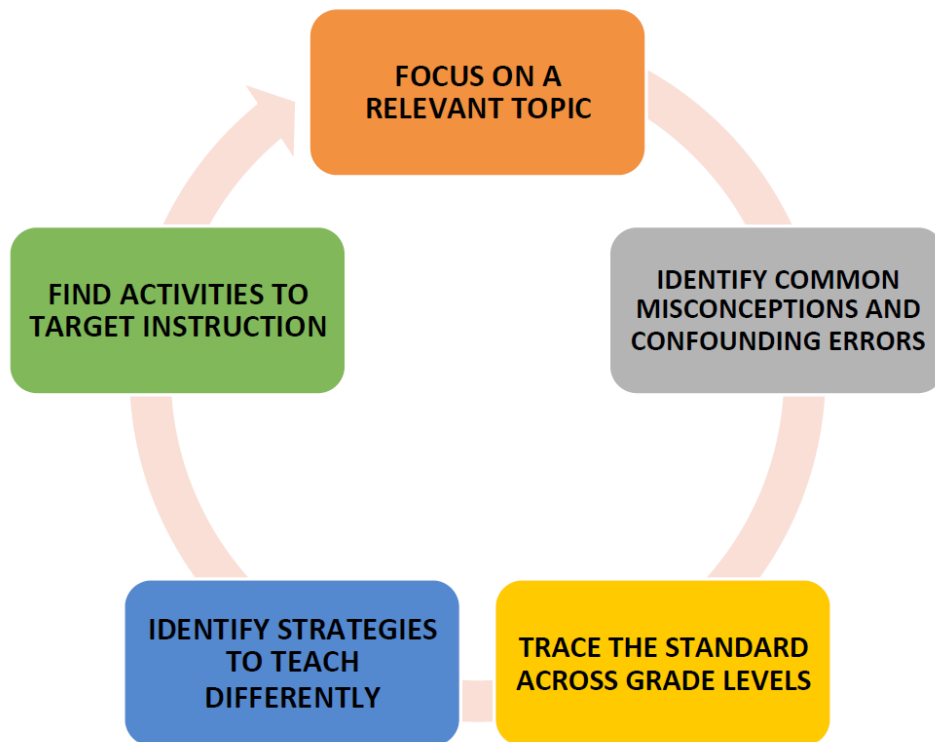
<p>Berkeley Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Sonoma, and Stanislaus counties</p>	<p>UC Berkeley Director: Emiliano Gomez (510) 642-0752 Coordinator: Jacqueline Frias (510) 642-0846 Fax: (510) 642-8204 mdtp@math.berkeley.edu</p>
<p>Chico Butte, Colusa, Del Norte, Glenn, Humboldt, Lake Lassen, Mendocino, Modoc, Nevada, Plumas, Shasta, Sierra, Siskiyou, Tehama, Trinity, and Yuba counties</p>	<p>CSU Chico Director: Sergei Fomin (530) 898-5274 Coordinator: Steven Huff (530) 898-4103 Fax: (530) 898-3097 mdtp@csuchico.edu</p>
<p>Davis Alpine, Amador, Calaveras, El Dorado, Placer, Sacramento, San Joaquin, Solano, Sutter, and Yolo Counties</p>	<p>UC Davis Director: Grant Acosta (530) 754-7743 Coordinator: Sarah Spencer (530) 754-9504 Fax: (530) 753-8420 mdtp@ucdavis.edu</p>
<p>Fresno Fresno, Inyo, Kern, Kings, Madera, Mariposa, Merced, Mono, southern San Benito, Tulare, and Tuolumne counties</p>	<p>CSU Fresno Director: Agnes Tuska (559) 278-4908 Coordinator: Devonna Butler (559) 278-4773 Fax: (559) 278-2872 agnest@csufresno.edu</p>
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<p>Santa Cruz Northern Monterey, northern San Benito, Santa Clara, and Santa Cruz counties</p>	<p>UC Santa Cruz Director: Bruce Cooperstein (831) 459-2150 Central Coast Coord.: Ed Migliore (831) 459-1240 Coordinator: Julie Krueger (831) 459-2969 Assistant: Katie Novak (831) 459-2400 Fax: (831) 459-3260 mdtp@ucsc.edu</p>

Mathematics Diagnostic Testing Project

5-Step Framework for Using MDTP Results Formatively

Created by Kimberly Samaniego, Ed. D., Director of MDTP

As a math teacher, my favorite activity was designing relevant lessons with my content peers in response to our students' common misconceptions and errors. To help facilitate this type of work, I created a simple method for looking at MDTP results to inform teachers' instructional decisions. While this framework was created with MDTP data in mind, I posit that similar results can be produced when it is applied to any type of formative assessment. Using this framework collaboratively encourages rich discussion around best practice and next steps.



- Step 1: Use the content and learning objectives from an upcoming unit or chapter to focus on a relevant topic and related items that students found the most difficult.
- Step 2: Drill-down to determine the misconceptions and the confounding errors that students are making in that topic or on those items.
- Step 3: Trace that topic in the standards across grade and course levels and discuss the implications of non-mastery with content peers.
- Step 4: Develop teaching strategies to address the identified errors, misconceptions and learning gaps. Determine where these strategies can be implemented into the upcoming unit/chapter.
- Step 5: Find or create activities that support targeted new learning goals using Common Core Standards for Mathematical Practice such as MDTP Written Response Items. See Written Response Items now located online at mdtp@ucsd.edu.