Newsletter

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Spring

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MDTP's Mission and Vision

<u>Vision</u>: MDTP *envisions* that all California students will achieve mathematical preparedness for and success in college-level mathematics courses.

<u>Mission</u>: MDTP achieves this *vision* by developing and providing diagnostic tools and training to support California mathematics educators in preparing students for success in current and subsequent mathematics courses.

CSU/UC Mathematics Diagnostic Testing Project







A Tool For Teachers



information on Written Response Items

MDTP 9th Grade Assessment Package

Guidelines for Using MDTP for Meeting SB-359 Expectations

In response to Senate Bill 359 (SB-359) California Mathematics Placement Act of 2015, MDTP offers two assessment tools to help schools and districts enact the following two articles of Section 2 of the Senate Bill:

- 1) Enact a fair, objective, and transparent placement policy using multiple measures which may include placement tests aligned to state-adopted content standards (SB-359 Sec. 2.51224.7 (1))
- 2) Include at least one placement check point within the first month of the school year (SB-359 Sec. 2.51224.7 (2))

Article 1: Use MDTP in the Spring as One Measure to Inform Students' Course Options

For *spring implementation*, we offer the following MDTP Tests:

- High School Mathematics Assessment (HSA) for students in 8th grade Common Core math entering an entry-level math course in 9th grade such as Algebra 1 or Integrated Math 1
- Geometry Placement Test (GP) for students in 8th grade Common Core Algebra 1
- Integrated Second Year Placement Test (ISP) for students in 8th grade Common Core Integrated Math 1

The MDTP 9th Grade Placement Tests could be used as *one measure within a set of multiple measures* to inform appropriate options for students' mathematical engagement in coursework towards college preparation. The diagnostic feedback from the 9th-grade assessments can used to inform program reflection and design. *Note: MDTP does not offer criteria for using MDTP Assessments for placement and these tests are only available for online administration.*

Article 2: Use MDTP in the Fall as a Placement Checkpoint and as Formative Assessment

For *fall implementation*, we offer the following MDTP Tests:

Tool For Teachers

- High School Mathematics Readiness Test for students entering an entry-level math course in 9th grade such as Algebra 1 or Integrated Math 1
- Geometry Readiness Test (GP) for students entering Geometry in 9th grade
- Integrated Second Year Readiness Test for students entering Integrated Math 2 in 9th grade

Corresponding MDTP Readiness Tests could be used to check student placement and the diagnostic results could be used formatively to: help understand students' strengths and areas of unfinished learning and to inform necessary instructional shifts and interventions. *Readiness Tests are for online and paper administration*.

Suggested Administration of MDTP to Support SB-359 for Students Entering 9th Grade

Course (Grade 8)	Spring Administration (Grade 8)	Fall Administration (Grade 9)
Common Core Math 8	High School Mathematics Assessment	High School Mathematics Readiness Test
Algebra 1	Geometry Placement Test	Geometry Readiness Test
Integrated Math	Integrated Second Year Placement Test	Integrated Second Year Readiness Test

Order MDTP Readiness and Placement Tests at: http://mdtp.ucsd.edu/k12-users/order-tests.html

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MDTP Written Response Items

Use MDTP open-ended **Written Response Items (WRIs)** to spark critical thinking and elicit your students' crystal-clear reasoning. WRIs are designed to provide opportunities for students to reason, think, and communicate effectively about mathematics. Each written response item is accompanied by a teacher-scoring rubric and problem essence statement and are available free online to California Math Educators.

Written Response Items Topics of Study

Written Response Items are organized around foundational topics of mathematics. Student responses provide teachers with a detailed view of each student's conceptual grasp of the topics listed below, which are aligned to MDTP Diagnostic Assessments.

A Tool For Teachers

Decimal, Percent and their Applications

Fractions and their Applications

Integers, their Operations and Applications

Geometric Concepts, Applications and Logic

Polynomials, Quadratics and Rational Expressions

Ideas for Engagement and Student-Centered Strategies for Implementation

MDTP Written Response Items can be administered across multiple grade-level courses and different skill sets as a formative learning experience. The MDTP Director offers the following ideas for three engagement levels with student-centered strategies for implementation:

- * **Introducing**: When students are first learning the content and are exploring their strategies and developing their skills sets
 - ⇒ Students solve a problem independently. Monitor students' progress and choose a few students to present their ways of thinking
 - \Rightarrow Purposely align student presentations to lead into the upcoming lesson
 - \Rightarrow Anticipate errors and deliver content in response to errors
 - \Rightarrow Assess learning of new content and provide feedback using rubric
- * Advancing: When students have spent time in the content and are advancing their knowledge and are incorporating diverse and flexible skill sets
 - ⇒Students work collaboratively to solve the problem, and through discussion, justification, argument, and debate, students agree on one solution and present/submit this one solution
 - \Rightarrow Poster walks
 - \Rightarrow Chart and name novel methods and class-validated methods
 - ⇒ Assess student understanding, build on charted methods, and remedy errors or misconceptions (see re-engagement)
- * **Re-engaging**: When activating students' prior knowledge to launch a new concept/skill or when a common misconception has been identified and *needs* intervention
 - \Rightarrow Activate Prior Knowledge: take pulse and design lessons to meet students where they are
 - \Rightarrow Remedy Misconceptions:
 - ⇒ Complete one section and return over multiple days to distribute (space) the learning over time to build retention
 - \Rightarrow Chart student responses and keep charts visible for reference during instruction

Linear Equations and Inequalities

Exponents and Square Roots

Graphical Representations

Functions

MDTP RELEASED DIAGNOSTIC TESTS

for Secondary Education (See page 2 for new field tests)

Test Name	Description	Test Code	Test Status	
Tests Aligned to the California Common Core State Standards for Mathematics				
Grade 7 Readiness	Measures readiness for a grade 7 Common Core math course. This test replaces Prealgebra Readiness. (See page 2 for field test for Grade 6.)	7R40A15	Released 2015	
Grade 8 Readiness	Measures readiness for a grade 8 Common Core math course or a compacted grade 7/8 course. This test replaces Prealgebra Readiness.	8R40A15	Released 2015	
High 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	Released 2015	
Integrated Second Year Readiness	Measures readiness for a second year integrated mathematics Common Core course.	IS45A17	Released 2017	
Integrated Third Year Readiness	Measures readiness for a third year integrated mathematics Common Core course.	IT45A17	Released 2017	
Pre-Common Core Released Tests				
Geometry Readiness	Measures readiness for a geometry course following a traditional Algebra I pre-Common Core math course. (See page 2 for new Common Core aligned field test.)	GR45A06	Released 2006	
Second Year Algebra Readiness	Measures readiness for an Algebra 2 or Intermediate Algebra course following a traditional Geometry pre-Common Core math course. (See page 2 for new Common Core aligned field test.)	SR45A06	Released 2006	
Mathematical Analysis Readiness	Measures readiness for success in a trigonometry, precalculus, or mathematical analysis math course.	MR45A08	Released 2008	
Calculus Readiness	Measures readiness for success in a first-year calculus math course offered in high school.	CR45A12	Released 2012	
Older released versions of MDTP tests may be available online or in paper form, depending on availability, and can be requested by contacting mdtp@ucsd.edu.				

MDTP REGIONS	MDTP SITES
CORRESPONDING COUNTIES	SITE DIRECTORS and COORDINATORS
Berkeley Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Sonoma, and Stanislaus counties	UC Berkeley Emiliano Gomez, Site Director Office: (510) 642-0752 Jaqueline Frias, Coordinator Office: (510) 642-0846 Email: mdtp@math.berkeley.edu
Davis and Chico Alpine, Amador, Calaveras, El Dorado, Placer, Sacramen- to, San Joaquin, Solano, Sutter, Yolo, Butte, Colusa, Del Norte, Glenn, Humboldt, Lake, <i>Lassen</i> , Mendocino, Mo- doc, Nevada, Plumas, Shasta, Sierra, Siskiyou, Tehama, Trinity, and Yuba (<i>Note: The UC Davis regional office now</i> <i>supports the CSU Chico region.</i>)	UC Davis Julie Mustard, Coordinator Pat King, Outreach Facilitator Email: mdtp@ucdavis.edu
Fresno Fresno, Inyo, Kern, Kings, Madera, Mariposa, Merced, Mono, southern San Benito, Tulare, and Tuolumne	CSU FresnoAgnes Tuska, Site DirectorOffice: (559) 278-4773Devonna Butler, CoordinatorOffice: (559) 278-2512Email: agnest@csufresno.eduEmail: devonna@mail.fresnostate.edu
Fullerton Orange county and schools in Los Angeles, Riverside, and San Bernardino counties near Fullerton	CSU FullertonDavid Pagni, Site DirectorOffice: (657) 278-2671Angela Hoang, CoordinatorOffice: (657) 278-2691Email: mdtp@fullerton.eduOffice: (657) 278-2691
Los Angeles Los Angeles and Ventura counties, except for schools closer to Fullerton	UC Los AngelesMary Sirody, Site DirectorOffice: (310) 825-0798Nora Perez, CoordinatorOffice: (310) 825-9477Email: mdtp@ucla.eduOffice: (310) 825-9477
San Bernardino San Bernardino and Riverside counties, except schools closer to Fullerton or San Diego	CSU San BernardinoGiovanna Llosent, Site DirectorOffice: (909) 537-3604Ana Sanchez, CoordinatorOffice: (909) 537-7670Email: mdtp@csusb.eduOffice: (909) 537-7670
San Diego Imperial, Riverside, and San Diego counties, except schools closer to San Bernardino or Fullerton	UC San DiegoDeanna Khan, CoordinatorOffice: (858) 534-3373Carol Treglio, Outreach FacilitatorEmail: mdtpsandiego@ucsd.edu
San Luis Obispo and Santa Cruz San Luis Obispo, Santa Barbara, Monterey, northern San Benito, Santa Clara, and Santa Cruz (Note: The CSU SLO regional office now supports the UC Santa Cruz region.)	Cal Poly San Luis ObispoKate Riley, Site DirectorOffice: (805) 756-2445Dale Wilbur, CoordinatorEmail: kriley@calpoly.eduEmail: dwilbur@calpoly.eduEmail: dwilbur@calpoly.edu

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CONTACT US

Teachers should contact the MDTP Site Director's Office (listed on page 5) that serves their geographic region to order materials, resources, and area outreach services.



MDTP Project Management: For assistance with online testing and ordering MDTP materials and out-of-state licenses or post-secondary licenses

Joshua Cho, MDTP Coordinator Call: (858) 822-2590 or email: <u>mdtp@ucsd.edu</u>

MDTP Financial Analyst: For financial support

Kelley Rollans, MDTP Fiscal Analyst Call: (858) 534-4519 or email: <u>krollans@ucsd.edu</u>

<u>MDTP Director</u> Dr. Kimberly Samaniego, Director MDTP Statewide Email: ksamaniego@ucsd.edu

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