

# CSU/UC Mathematics Diagnostic Testing Project

2020-21

## Newsletter

# MDTP

A Tool For Teachers

MDTP is provided with the support of the Trustees of the California State University, the Regents of the University of California, and the California Academic Partnership Program.



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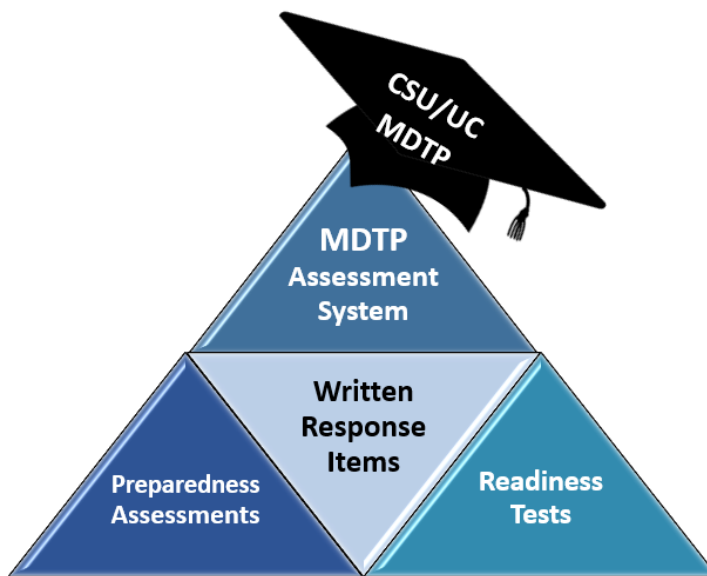
All MDTP Offices are Remote

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### MDTP's Mission and Vision

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

**Mission:** 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

## MDTP Remote Access for Distance Learning

During the COVID-19 pandemic, MDTP will support educators to administer its tests remotely on the MDTP Diagnostic (Readiness) testing platform. The tests offered on this platform include the Grade-level Assessments of Preparedness and the Course-level Readiness Tests:

### Assessments of Preparedness Tests for Grades Six, Seven, and Eight Readiness Tests for courses in Algebra 1/Integrated Math 1 through Calculus

MDTP grade-level and course-level diagnostic assessments are designed to measure students' mathematical preparation in foundational topics of the course students are entering, and/or to inform students' preparation for the mathematical content in the courses to which they will be promoted.

***Note: The MDTP Online Testing Platform is only available Mon-Fri from 7am-5:30 pm (Pacific Standard Time)***

- The diagnostic results should be *used formatively* to understand students' strengths and areas of unfinished learning, *inform instruction and potential interventions, inform next-course readiness, measure program growth, and identify appropriate professional learning* (see page 5 for suggestions on how to use MDTP formatively).
- MDTP grade-level and course-level diagnostic assessments are not comprehensive and should not be used as a final or unit exam.
- MDTP strongly requests that all remote testing is monitored by the assigned teacher of the students who are remote testing.
- MDTP requests that when possible, certified educators conduct a virtual session in Zoom, Google Hangouts, or any analogous platform where they can proctor the online testing sessions. During these sessions, proctors may monitor student access and answer students' questions as they arise during testing.
- ***If MDTP results are used to inform next-course enrollment, they must be used as one of multiple measures.***
- When MDTP tests are taken remotely, the validity and reliability of the measure may be compromised. Therefore, MDTP results should always be used as one of multiple measures to inform next-course enrollment.
- Schools and Districts using MDTP must work directly with students and parents regarding their purpose and use of MDTP assessments. MDTP does not share testing data or information with parents or students. All parent queries must be directed to the school and/or district.
- Student login issues must be addressed by the teacher, school, and/or district first. Testing issues that teachers cannot troubleshoot should be sent via email to their [MDTP Regional Sites](#) and "cc" [mdtp@ucsd.edu](mailto:mdtp@ucsd.edu). Please note that all MDTP Regional staff are working remotely.

For support on administering MDTP tests remotely, view the following MDTP Webinar video:

*A Guide to Setting Up and Using MDTP Remotely.* The topics of this session include:

- Suggestions for how to administer MDTP diagnostic tests remotely
- How to set up testing (add classes, rosters, and assign tests)



Contact your [regional MDTP office](#) to receive information on the [MDTP Remote Testing Policy and Use Agreement](#) and remote testing.

## **MDTP 9th Grade Assessment (Not Available)**

The MDTP Assessment Platform has been suspended during the California COVID-19 mandated school closures. MDTP will resume the use of this platform once California students return to face-to-face instruction since the assessments available on this platform must be administered in a proctored setting.

For support on administering MDTP tests to inform next-course enrollment, view the following MDTP Webinar video: *Informing and Implementing an Equitable Course-enrollment Policy*

# CSU/UC Mathematics Diagnostic Testing Project

## The MDTP Webinar Series

During the COVID-19 pandemic, MDTP provides support to secondary math educators via the [MDTP Webinar Series](#). MDTP Webinar sessions are specifically designed to support teachers using the MDTP Assessment System during remote and distance learning. Each webinar features a 35-minute info-session on specified topics followed by a short Q&A session.

We invite you to watch the following [MDTP Webinars Sessions](#):

**[A Guide to Setting Up and Using MDTP Remotely](#)**. *The topics of this session include:*

- ◆ Suggestions for how to administer MDTP diagnostic tests remotely
- ◆ How to set up testing (add classes, rosters, and assign tests)



Contact your [regional MDTP office](#) to receive information on the [MDTP Remote Testing Policy and Use Agreement](#) and remote testing.

**[Accessing, Interpreting and Using MDTP Results Formatively](#)**. *The topics of this session include:*

- ◆ Accessing the summary reports to learn about cohort results
- ◆ Analyzing items to learn how to identify students' mathematical strengths, unfinished learning and misconceptions, and gaps of content instruction
- ◆ Analyzing distractors to learn how to use student thinking in lesson design and unit planning

Video for September 23 - [Middle School Emphasis](#)

Video for September 24 - [High School Emphasis](#)

**[Using MDTP Results to Enact Re-engagement Strategies](#)**. *The topics of this session include:*

- ◆ Analyzing distractors to identify common misconceptions
- ◆ Unpacking the mathematics needed to address the misconception
- ◆ Using strategies to create and enact tasks that re-engage students to address the misconception and bridge to current content

Video for September 29 - [Middle School Emphasis recording](#)

Video September 30 - [High School Emphasis recording](#)

**[Strategies for Using MDTP Written Response Items](#)**. *The topics of this session include:*

- ◆ Access and overview of MDTP Written Response Items (WRIs)
- ◆ Enact student-centered engagement strategies to illuminate student thinking, re-engage to target misconceptions, and develop deeper conceptual understanding
- ◆ Support students to use MDTP WRI Rubrics formatively

**[Using MDTP Diagnostic Data and Written Response Items to Support Students' Unfinished Learning](#)**

*The topics of this session include:*

- ◆ Explore how MDTP diagnostic distractors may indicate unfinished learning and potential gaps of content learning
- ◆ Learn how to link these results to create learning experiences using MDTP WRIs to support unfinished learning

**[Informing and Implementing an Equitable Course-enrollment Policy](#)**. *The topics of this session include:*

- ◆ Rationale and equity principles of SB 359 (California Mathematics Placement Act of 2015)
- ◆ Recommendations for using MDTP to inform next-course enrollment options attentive to equitable practices
- ◆ Statistical issues around setting cut scores and ranges (see documents below)
  - ◆ [Presentation via PDF format](#)
  - ◆ [Six Guidelines to Inform Next-course Enrollment Options](#)

# CSU/UC Mathematics Diagnostic Testing Project

## MDTP Support Resources

MDTP provides free access to demonstration tests on the online testing platform, written response items, and student-centered learning experiences designed for independent study and practice for students exiting high school and entering post-secondary mathematics.

### NEW! MDTP Demo Tests

MDTP is excited to present Demo Tests on the MDTP Readiness Platform. Each Demo Test contains three questions to demonstrate the features of taking MDTP tests online. These items were specifically chosen to expose students to questions that require using scratch paper (computations), scrolling to see all the options (options are graphics and cannot be viewed with the stem), and choosing atypical answer choices (such as I only, II only, I and II, II and III). There are five tests to support administration of the 6M through the ITR or SR (see test names below):

- ◆ *Demo Test for 6M*
- ◆ *Demo Test for 7M*
- ◆ *Demo Test for 8M*
- ◆ *Demo Test for AMR*
- ◆ *Demo Test for GR/SR/IS/IT*



Teachers can assign Demo Tests to rostered classes in the same way that they would assign an Assessment of Preparedness or Readiness Test. They can also view the results to see how the data is displayed for the three questions. Contact your [regional MDTP office](#) to receive information on how to use MDTP Demo Tests.

## 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. All WRIs are accompanied by a teacher-scoring rubric and problem essence statement and are available free online to California Math Educators. WRIs are organized around foundational topics of mathematics to provide teachers with a detailed view of each student's conceptual grasp in these topics.

- ◆ [Request access to MDTP Written Response Items](#)

For support on administering and using MDTP WRIs, view the following [MDTP Webinar videos](#):

- ◆ [Strategies for Using MDTP Written Response Items](#)
- ◆ [Using MDTP Diagnostic Data and Written Response Items to Support Students' Unfinished Learning](#)

## MDTP Learning Modules

The **MDTP Learning Modules** were written by MDTP Workgroup members and were informed by diagnostic results from MDTP assessments. These student-centered modules can be used to review content before or after an assessment, prior to entering a new course, and at the direction of their math instructor. MDTP Learning Modules are designed to support students' independent practice in the identified MDTP topics.

Each Module is divided into lessons and each lesson consists of **Learning Experiences** which include exploration (*Explore*), guided examples (*Try This!*), instructional videos (*Watch*), making connections (*Making Connections*) and practice (*Practice*).

Access the MDTP Learning Modules at: <https://mdtpmodules.org/>

# CSU/UC Mathematics Diagnostic Testing Project

## Examples for Using MDTP Assessments Formatively

Using MDTP assessments in effective and appropriate ways supports educators to enhance their students' access to the content in their current course and promote their students' preparation in foundational mathematical topics of their next course. The three examples below show how to use MDTP to engage in formative cycles of teaching and learning.

### Using MDTP to Support Formative Cycles of Teaching and Learning

Current Course	Purpose	Recommended Test	Administered
Grade 7 CC Math	<ul style="list-style-type: none"> <li>Inform preparedness for the mathematics in the current course</li> <li>Gather baseline data and identify strengths, misconceptions, and gaps</li> </ul>	Assessment of Preparedness for 7 <sup>th</sup> Grade Mathematics <b>7M40A15</b>	Fall Grade 7
	<ul style="list-style-type: none"> <li>Check on intervention focused on misconceptions and/or gaps related to Grade 7 content</li> </ul>	Assessment of Preparedness for 7 <sup>th</sup> Grade Mathematics <b>7M40A15</b>	2-4 months after first testing
	<ul style="list-style-type: none"> <li>Inform preparedness for the math in the foundational topics of the next course</li> <li>Inform program reflection and design</li> </ul>	Assessment of Preparedness for 8 <sup>th</sup> Grade Mathematics <b>8M40A15</b>	Spring Grade 7
Grade 8 CC Math	<ul style="list-style-type: none"> <li>Inform preparedness for the mathematics in the current course</li> <li>Gather baseline data and identify strengths, misconceptions, and gaps</li> </ul>	Assessment of Preparedness for 8 <sup>th</sup> Grade Mathematics <b>8M40A15</b>	Fall Grade 8
	<ul style="list-style-type: none"> <li>Check on intervention focused on misconceptions and/or gaps related to Grade 8 content</li> </ul>	Assessment of Preparedness for 8 <sup>th</sup> Grade Mathematics <b>8M40A15</b>	2-4 months after first testing
	<ul style="list-style-type: none"> <li>Provide one of multiple measures to inform course options for 9th grade</li> <li>Inform program reflection and design</li> </ul>	Algebra 1/Integrated Math 1 Readiness Test <b>AMR45A19</b> ( <i>in lieu of 9th Grade Assessment</i> )	Spring Grade 8
Algebra 1 or Int Math 1	<ul style="list-style-type: none"> <li>Inform readiness for the mathematics in the current course</li> <li>Gather baseline data and identify strengths, misconceptions, and gaps</li> </ul>	Algebra 1/Integrated Math 1 Readiness Test <b>AMR45A19</b>	Fall
	<ul style="list-style-type: none"> <li>Check growth on intervention focused on identified misconceptions and/or gaps related to Algebra 1 content</li> </ul>	Algebra 1/Integrated Math 1 Readiness Test <b>AMR45A19</b>	2-4 months after first testing
	<ul style="list-style-type: none"> <li>Gather baseline data for next course readiness and identify strengths, misconceptions, and gaps</li> </ul>	Geometry Readiness <b>GR45A19</b> or Integrated Second Year Mathematics Test <b>ISR45A20</b>	Mid-Year
	<ul style="list-style-type: none"> <li>Inform readiness for Geometry or Integrated Math 2 Readiness</li> <li>Check growth from mid-year testing</li> <li>Inform program reflection and design</li> </ul>	Geometry Readiness <b>GR45A19</b> or Integrated Second Year Readiness Test <b>ISR45A20</b>	Spring

- See [Recommendations for Testing and Suggested Use](#) to inform decisions at each secondary level.
- Contact your regional MDTP office for support on using MDTP assessments at secondary grade and course-level math classes.
- Use the following guide [Effective and Appropriate Uses of the MDTP Assessment System](#) to support use of the MDTP Assessment System.
- For information on MDTP Assessments of Preparedness and Readiness Tests or to order tests see: <https://mdtp.ucsd.edu/>.



# CSU/UC Mathematics Diagnostic Testing Project

## MDTP Common Core Aligned Tests

Test Name	Description	Test Code	Test Status
<b>Grade-level Assessments of Preparedness</b>			
<b>Grade 6 Assessment of Preparedness</b>	A diagnostic assessment of students' preparedness in foundational topics necessary for success in a California Common Core Grade 6 mathematics course.	6M35A20	Released 2020
<b>Grade 7 Assessment of Preparedness</b>	A diagnostic assessment of students' preparedness in foundational topics necessary for success in a California Common Core Grade 7 mathematics course.	7M40A15 <i>formerly known as</i> 7R40A15	Released 2015
<b>Grade 8 Assessment of Preparedness</b>	A diagnostic assessment of students' preparedness in foundational topics necessary for success in a California Common Core Grade 8 mathematics course.	8M40A15 <i>formerly known as</i> 8R40A15	Released 2015
<b>Course-level Readiness Tests</b>			
<b>Algebra 1 / Integrated 1 Readiness Test</b>	Assesses students' readiness in foundational topics necessary for success in a California Common Core entry-level Algebra I or Integrated Math 1 course as defined in the Mathematics Framework for California Schools.	AMR45A19 <i>Replaces</i> HS45A15	Released 2019
<b>Geometry Readiness</b>	Assesses students' readiness in foundational topics necessary for success in a California Common Core Geometry course as defined in the Traditional Pathway in the Mathematics Framework for California Schools.	GR45A19	Released 2019
<b>Integrated Second Year Readiness</b>	Assesses students' readiness in foundational topics necessary for success in a California Common Core second-year integrated mathematics course as defined in the Mathematics Framework for California Schools.	ISR45A20 <i>formerly known as</i> IS45A17	Released 2020
<b>Second Year Algebra Readiness</b>	Assesses students' readiness in foundational topics necessary for success in a California Common Core second-year algebra course as defined in the Traditional Pathway in the Mathematics Framework for California Schools.	SR45A19	Released 2019
<b>Integrated Third Year Readiness</b>	Assesses students' readiness in foundational topics necessary for success in a California Common Core third-year integrated mathematics course as defined in the Mathematics Framework for California Schools.	ITR45A20 <i>formerly known as</i> IT45A17	Released 2020
<b>Mathematical Analysis Readiness Field Test</b>	Assesses students' readiness in foundational topics necessary for success in a precalculus course or other courses at that level.	MR45D20	Year Two Field Test
<b>Calculus Readiness</b>	Assesses students' readiness in foundational topics necessary for success in a first year or entry-level calculus course.	CR45A12	Released 2012

Older released versions of MDTP tests may be available online or in paper form and can be requested at [mdtp@ucsd.edu](mailto:mdtp@ucsd.edu).



# CSU/UC Mathematics Diagnostic Testing Project

## MDTP REGIONS

### Corresponding Counties

## MDTP Regional SITES

### Site Directors and Coordinators

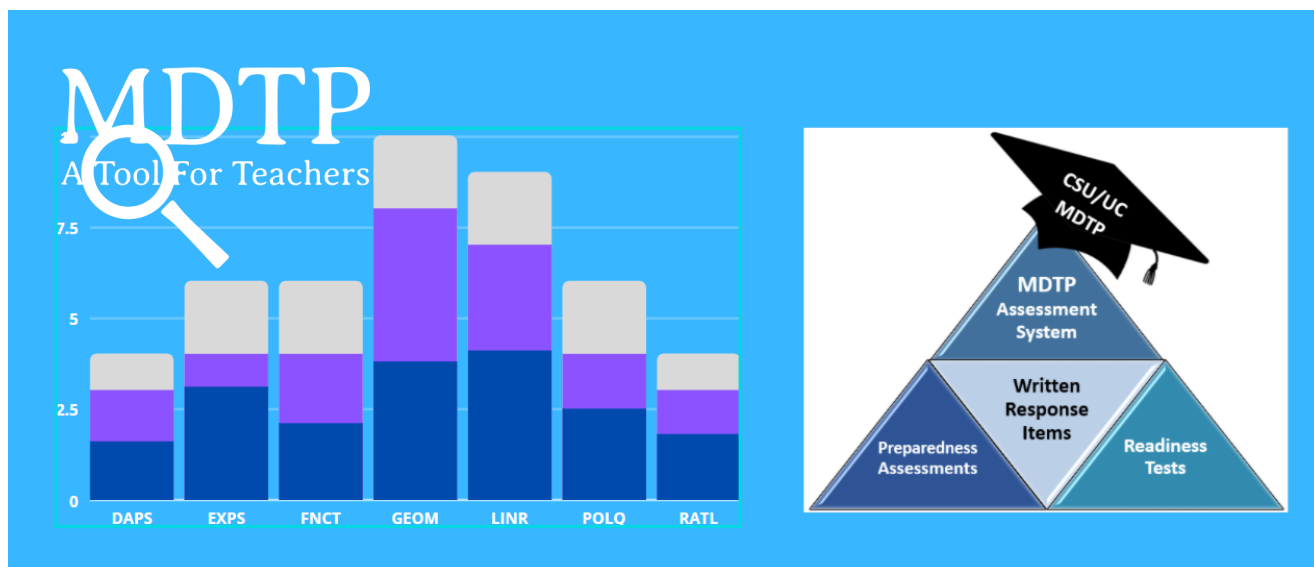
<b>UC Berkeley</b> Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Sonoma, and Stanislaus counties	<b>UC Berkeley</b> Dr. Emiliano Gomez, Site Director (510) 642-0752 Jaqueline Frias, Coordinator (510) 642-0846 Email: mdtp@math.berkeley.edu
<b>UC Davis</b> Alpine, Amador, Calaveras, El Dorado, Placer, Sacramento, San Joaquin, Solano, Sutter, Yolo, Butte, Colusa, Del Norte, Glenn, Humboldt, Lake, Lassen, Mendocino, Modoc, Nevada, Plumas, Shasta, Sierra, Siskiyou, Tehama, Trinity, and Yuba <i>(Note: The UC Davis regional office now supports the CSU Chico region)</i>	<b>UC Davis</b> Julie Mustard, Coordinator (530) 754-9504 Pat King, Outreach Facilitator Email: mdtp@ucdavis.edu
<b>CSU Fresno</b> Fresno, Inyo, Kern, Kings, Madera, Mariposa, Merced, Mono, southern San Benito, Tulare, and Tuolumne	<b>CSU Fresno</b> Dr. Agnes Tuska, Site Director (559) 278-2512 Devonna Butler, Coordinator (559) 278-4041 Email: agnest@csufresno.edu Email: devonna@mail.fresnostate.edu
<b>CSU Fullerton</b> Orange county and schools in Los Angeles, Riverside, and San Bernardino counties near Fullerton	<b>CSU Fullerton</b> Dr. David Pagni, Site Director (657) 278-2671 Angela Hoang, Coordinator (657) 278-2691 Email: mdtp@fullerton.edu
<b>UC Los Angeles</b> Los Angeles and Ventura counties, except for schools closer to Fullerton	<b>UC Los Angeles</b> Nora Perez, Coordinator (310) 825-9477 Email: mdtp@ucla.edu
<b>CSU San Bernardino</b> San Bernardino and Riverside counties, except schools closer to Fullerton or San Diego	<b>CSU San Bernardino</b> Dr. Giovanna Lloset, Site Director (909) 537-3604 Email: mdtp@csusb.edu
<b>UC San Diego</b> Imperial, Riverside, and San Diego counties, except schools closer to San Bernardino or Fullerton	<b>UC San Diego</b> Deanna Khan, Coordinator (858) 534-3373 Carol Treglio, Outreach Facilitator Email: mdtpsandiego@ucsd.edu
<b>CSU San Luis Obispo</b> San Luis Obispo, Santa Barbara, Monterey, northern San Benito, Santa Clara, and Santa Cruz <i>(Note: The CSU SLO regional office now supports the UC Santa Cruz region)</i>	<b>Cal Poly San Luis Obispo</b> Dr. Kate Riley, Site Director (805) 756-2445 Dale Wilbur, Coordinator Email: kriley@calpoly.edu Email: dwilbur@calpoly.edu

## CSU/UC Mathematics Diagnostic Testing Project

# CSU/UC Mathematics Diagnostic Testing Project

## Contacting the Director's Office

Teachers should contact the [MDTP Site Regional Office](#) that serves their region to order materials and resources and to arrange free site-based outreach services designed to support effective and appropriate uses of MDTP.



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

*Joshua Cho, MDTP Project Officer*

Call: (858) 822-2590 or email: [mdtp@ucsd.edu](mailto:mdtp@ucsd.edu)

*Karen Martinez, MDTP Administrative Assistant*

Call: (858) 534-3298 or email: [mdtp@ucsd.edu](mailto:mdtp@ucsd.edu)

### **MDTP Statewide Director**

*Dr. Kimberly Samaniego, Director MDTP Statewide*

Email: [ksamaniego@ucsd.edu](mailto:ksamaniego@ucsd.edu)

CSU/UC Mathematics Diagnostic Testing Project

