Using MDTP tests with the EAP
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How should MDTP tests be used with the Early Assessment Program?
Since the EAP mathematics tests are not diagnostic and do not provide information about students' strengths and weaknesses, MDTP tests are recommended to provide this data for teachers. EAP recommends the use of MDTP tests to identify areas requiring additional work for students that have been classified by the augmented CST tests as conditionally-ready or not yet ready (http://www.csumathsuccess.org/msw_teachers_onlineressources).

Which MDTP tests should be used in 11th grade?
MDTP tests are designed to provide teachers and students with diagnostic information about strengths and weaknesses in student understanding of critical topics necessary for success in a specific course. MDTP tests can be used to prepare students to take the augmented CSTs in April or May and/or informing the placement of students into 12th grade math courses:

1. Preparing for augmented CST in April or May.
   a. For Algebra II classes: Administer the MR45A08 test 4-6 weeks before the CST to identify topics needing more attention before students take the augmented Algebra II CST test. Review weak areas with the whole class, groups of students, or individual students, and distribute personalized student letters. Alternatively students could take the MR test web version at http://mdtp.ucsd.edu/test_new/?show_instructions=4 and receive personalized feedback about their strengths and weaknesses.
   b. For Precalculus classes: Administer the CR45A12 test 4-6 weeks before the CST to identify topics needing more attention before students take the augmented High School Summative Math CST test. Review weak areas with the whole class, groups of students, or individual students, and share personalized student letters. Alternatively students could take the CR test web version at http://mdtp.ucsd.edu/test_new/?show_instructions=3 and receive personalized feedback about their strengths and weaknesses.

2. Placement into 12th grade math courses. EAP results are not available until August, so it is impractical to use the EAP status reports to help place students into math courses in 12th grade. If MDTP tests are administered near the end of 11th grade, their results could be used to inform 12th grade math course placement. Teachers and counselors could use the individual student letters as one factor in determining which 12th grade math courses are best suited for students. If such an effort were undertaken school-wide and students were placed in 12th grade math courses according to skills, it seems likely that the result would be students would be grouped by common instructional needs with nearly homogeneous EAP statuses.
   a. For Algebra II classes: Administer the MR45A08 test.
      i. Students who score well on the MR test should be recommended for Pre-Calculus, if available. Such a course would help these students maintain their proficiency and further prepare them for college mathematics courses.
ii. Students who don’t score well on the MR test should be recommended for Algebra II, if the high school counselor deems it appropriate for students to retake this course in 12th grade. Such a course should not simply duplicate the student’s current Algebra II course but should be different: text, pedagogy, teacher.

iii. Other options for students who don’t score well on the MR test:
   1. Year-long math courses with Algebra II as a prerequisite.
   2. Less desirable is AP Statistics, since these students really need more algebra review and practice.
   3. e-Learning course monitored by CSU math faculty.

b. For Precalculus classes: Administer the CR45A12 test.
   i. Students who score well on the CR test should be recommended for AP Calculus or a community college calculus course to keep their options open for college majors that demand a higher level of quantitative analysis. These students will likely score in the Exempt category or they will meet one of the ELM exemptions.
   ii. Students who do not score well on the CR test and who fail their course should repeat Pre-Calculus. Students who pass their course should be recommended for Pre-Calculus Honors, AP Physics, AP Statistics, or another course that has an Algebra II prerequisite.

### Which MDTP tests should be used in 12th grade?

Twelfth grade teachers with students who participated in the EAP during their junior year should review the EAP results (exempt, conditionally-ready, and not yet ready) of their students and administer an appropriate MDTP test at the beginning of the year to obtain useful diagnostic data about their students. Teachers should administer an MDTP test suitable for their courses and for the math background of their students. MDTP tests will inform teachers about their students’ strengths and weaknesses and allow teachers to adjust their curricula and their teaching to address the diagnosed weaknesses and gaps.

1. If Algebra II, then administer Second-Year Algebra Readiness test (SR45A06).
2. If Pre-Calculus course or Pre-Calculus Honors, then administer Mathematical Analysis Readiness test (MR45A08).
3. If math course requires Algebra II as a prerequisite, then administer MR45A08 test if a majority of students received a conditionally-ready status (if the majority of students received a not yet ready status, administer the SR45A06 test).
4. If AP Calculus or college calculus course, then administer CR45A12 test.
5. If AP Statistics, then administer MR45A08 test.

### Which MDTP tests could be used before 11th grade?

MDTP readiness tests are available for every college-preparatory readiness course from Pre-Algebra through Calculus. Teachers should consider using MDTP readiness tests beginning in 6th grade to determine their students’ readiness for their math course and to identify any weaknesses or gaps in their preparation so they can address their students’ needs.