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## MARYLAND SCHOOL ASSESSMENT -- MATHEMATICS

### *GENERAL INFORMATION*

- ✓ Testing in mathematics will occur over two days.
  - Annually in early March
  - A make-up schedule will be provided.
  - Actual testing of assessment items will take approximately 90 minutes per day, not including instructions to students.
- ✓ Each day will be subdivided into several smaller time blocks.
- ✓ Students will work independently. Discussions or group work will not be part of the assessment.
- ✓ Accommodations will be consistent with a student's IEP, 504 plan, or LEP plan.

### *TEST ITEMS*

- ✓ **Item Types.**
  - All Grades. All grades will have selected response items (SR) and brief constructed response items (BCR).
    - **Selected Response Items.** These are multiple choice items.
    - **Brief Constructed Response Items.** These require students to write an answer consisting of a few sentences.
  - Grades 5 through 8. Students in grades 5 through 8 also will have extended constructed response items (ECR).
    - **Extended Constructed Response Items.** These items will require students to write an answer that will consist of more information than will be required for a brief constructed response item.
  - Grade 7 and 8. Students in grades 7 and 8 also will have student-produced responses (SPR).
    - **Student-Produced Responses.** These responses will require students to record their answers on a grid by shading in circles corresponding to the numbers in their answer.

	Selected Response	Brief Constructed Response	Extended Constructed Response	Student Produced Response
Grades 3 & 4	X	X		
Grades 5 & 6	X	X	X	
Grades 7 & 8	X	X	X	X

- ✓ **Augmented Items.** Augmented items were written to the Maryland Content Standards for all grades 3 through 8. During the item writing, the Content Standards were clarified to ensure that the items being written were appropriate for Maryland students.
- ✓ **Content Standards.** The test will be limited to the Content Standards for mathematics.
  - **Assessment of Indicators.** The Maryland School Assessment will assess all standards every year. However, not all indicators will be assessed in one year. All of the indicators are in the potential pool to be tested; however, a limited number of indicators will be selected each year for assessment. Over time, all indicators will be assessed.
- ✓ **None of These.** This option will not appear as an answer choice on the Maryland selected response items.
- ✓ Maryland student-produced response items (Grades 7 & 8) will use the same rules as students use to complete the High School Assessment (HSA).

## **SCORES**

- ✓ A norm-referenced and a criterion-referenced score will be reported for each student.
  - **Criterion-Referenced Score.** A selected set of Terra Nova items (selected by Maryland) along with items created for Maryland will provide the Maryland criterion-referenced score. Criterion-referenced results will be published before school starts each fall. An overall criterion-referenced score will be reported for the Maryland School Assessment based on the criterion-referenced items on the test.

Adequate yearly progress (AYP), the federal government's accountability measure, will be based on a school's criterion-referenced score.

- **Norm-Referenced Score.** The Terra Nova Survey (consisting of only SR items) will provide the norm-referenced score. In 2003, the norm-

referenced results will be reported before school ends in June 2003. Plans for releases in future years are being discussed.

- ✓ **Mathematics Score.** An overall mathematics score will be reported by proficiency level – for example, Basic, Proficient, or Advanced. These levels will be determined through a Standards Setting Process that will occur in the future. Maryland plans to report scores for
  - Algebra/Patterns
  - Geometry/Meaning
  - Statistics/Probability
  - Number Concepts/Computation, and
  - Processes of Mathematics.
  
- ✓ Maryland will have its own rubrics for scoring the constructed response (CR) items. Maryland CR items will not be like CTBS/5 or CAT/6 (Terra Nova). The drafts of the BCR and ECR rubrics, with student papers illustrating levels of responses, will be available on the web at [mdk12.org](http://mdk12.org) in the next few weeks.
  
- ✓ Constructed response items will be scored separately for content (Algebra/Patterns, Geometry/Meaning, Statistics/Probability, Number Concepts/Computation) and Processes of Mathematics. Typically, CR items ask students for an explanation, justification, connection or extension.
  
- ✓ CR items account for almost half of the testing time and contribute to a content score and a process score.

### ***LOCAL SCHOOL SYSTEM EXPECTATIONS***

- ✓ Provide calculators for students.
  - Some sections will allow the use of a calculator and some sections will not.
  - Students may use any calculator that does NOT have a QWERTY keyboard.
  - Items are placed in the non-calculator section when we want students to be able to perform the skill without a calculator or if a particular calculator would provide an unfair advantage for a student.
  
- ✓ Provide
  - Scrap paper and graph paper for all grades 3 through 8.
  - Calculator and dual scale ruler (or two separate rulers) for all grades 3 through 8.
  - Protractor for grades 5 through 8.
  - Compass for grades 7 and 8.