

Computer-Based Assessments

To ensure fairness across Maryland schools, students may only use the embedded tools provided through the computer-based delivery system. Any tool used that is not approved is prohibited, as it may create an unfair advantage or disadvantage.

RULERS

A grade/course appropriate ruler will be provided through the computer-based delivery system for the Mathematics Assessments for grades 3-8 and Algebra I, Geometry and Algebra II.

Grade/Course	Customary	Metric
Grade 3	$\frac{1}{4}$ inch increments 	N/A
Grades 4 – 8 Algebra I Geometry Algebra II	$\frac{1}{8}$ inch increments 	centimeter increments 

PROTRACTORS

A protractor will be provided through the computer-based delivery system for the Mathematics Assessments for grades 4-8 and Algebra I, Geometry and Algebra II.

OTHER ALLOWABLE TOOLS

Tools that are allowable but **not** provided via the computer-based delivery system include:

- Graph Paper (allowable on all Mathematics Assessments)
- Geometry tools (Grade 8 and Geometry assessments only)
 - Tracing paper
 - Reflection tools
 - Straight edge
 - Compass

CALCULATORS

A grade/course appropriate calculator will be provided through the computer-based delivery system for the Mathematics Assessments for grades 3-8 and Algebra I, Geometry and Algebra II on items that allow the use of a calculator.

Grade/Course	Description of the Provided Calculator
3-5	- Four-function calculator with square root and percentage functions labeled "Five Function Calculator" - Four-function calculator with square root and percentage functions labeled "Desmos Basic Four Function Calculator"
6-7	- Four-function calculator with square root and percentage functions labeled "Five Function Calculator" - Four-function calculator with square root and percentage functions labeled "Desmos Basic Four Function Calculator"
8	- Scientific calculator - Desmos version of scientific calculator
Algebra I, Geometry, Algebra II	- The TI-84 CE graphing calculator - Desmos version of graphing calculator

CALCULATOR ACTIVE SECTIONS FOR COMPUTER-BASED ASSESSMENTS

Grade/Course	Non-Calculator Sections	Calculator Active Sections
3 – 5	1 and 2*	2* and 3
6 – 8	Not applicable	All sections
Algebra I, Geometry, and Algebra II	1	2, 3, 4

*Note – Section 2 will include both non-calculator and calculator items.

Schools must also follow these calculator guidelines:

- Calculators with QWERTY keyboards are not allowed.
- Calculators with Computer Algebra System (CAS) features are not allowed.
- Tablet, laptop, PDA, phone-based, and smartwatch calculators are strictly prohibited.
- Students may NOT share calculators during any section.
- TAs must confirm that all hand-held calculators have cleared memory before testing and after Proctor Groups. • Calculators with “QWERTY” keyboards are NOT permitted.
- Test Administrators must verify that all hand-held calculators have cleared memory before testing and after the completion of Proctor Groups.

While discouraged, if the LEA or LEA 24 school allows students to bring personal calculators (e.g., talking or large-key calculators), STCs or TAs must verify these meet the above requirements.

DRAWING BOX

The “Drawing Box” will appear below the box provided for entering responses to constructed response items. Students may use the tools to the left of the “Drawing Box” to create a drawing in the provided box to help explain their answer.

OTHER ALLOWABLE TOOLS

Tools that are allowable but **not** provided via the computer-based delivery system include:

- Graph Paper (allowable on all MCAP mathematics assessments)
- Geometry tools (Grade 8 and Geometry assessments only)
 - Tracing paper
 - Reflection tools
 - Straight edge
 - Compass

Paper-Based Assessments

For paper-based assessments, rulers, protractors, and grade/course level appropriate calculators must be provided by the school and/or test coordinator. The school and/or test coordinator may also provide the other allowable tools listed above.

CALCULATOR ACTIVE SECTIONS FOR PAPER-BASED ASSESSMENTS

Grade/Course	Non-Calculator Sections	Calculator Active Sections
3 – 5	1	2 and 3
6 – 8	Not applicable	All sections
Algebra I, Geometry, and Algebra II	1	2, 3, 4

Accommodations Guidance

For students receiving response accommodations (4d and/or 4e), schools must provide a school-owned allowable calculator with cleared memory for use during calculator-active sections.

The specific tool that a student requires should be documented on the student’s IEP or 504 as an accommodation and/or supplementary aid and service. Students should have experience with using the selected tool during instruction before using it as an accommodation on an assessment

Refer to the specific assessment’s TAM or Accommodations Manual for a list of allowable calculation devices and mathematical tools.

Description of Accommodation	Administration Guidelines
4d. Mathematics Tools / Calculator on Calculator sections of the Math and Science Assessments. <i>If a student’s disability affects mathematics calculation, reasoning or access, a calculator or other mathematical tool may be needed. If a student requires use of a special calculator (e.g., large buttons, talking), this accommodation should be selected.</i>	A student uses a specific calculation device or math tool (e.g., large key, talking, or other adapted calculator) other than the embedded grade-level calculator on the calculator section of the mathematics assessment. If a talking calculator is used, the student must use headphones or be tested in a separate setting. The calculator cannot include functionality beyond the embedded grade level calculator.
4e. Mathematics Tools / Calculator on non-calculator sections of the Math and Science Assessments <i>The purpose of a calculation device on the non-calculator sections of the Mathematics Assessment is to provide access for students with a disability that severely limits (multiple years below grade level) or prevents their ability to perform basic calculations (the IEP team should determine appropriate data for this decision). For these students, a calculation device may be used on the non-calculator and calculator sections of the mathematics assessments.</i>	

LEAs and schools must refer to the [Maryland Assessment, Accessibility, & Accommodations Manual \(MAAAM\)](#) for comprehensive guidance on identifying and administering accessibility features and accommodations.