

## Calculator Guidance

The AzM2 calculator guidelines are designed to provide appropriate support for students while still measuring a student's mastery of the standards. On tests where calculators are permitted, it is ideal for a student to use the recommended acceptable calculator. If the recommended calculator is not available, students may use a calculator with less functionality. The Desmos Scientific and Graphing calculators have been customized for AzM2 and are embedded in online tests that allow the use of a calculator.

These guidelines are for the assessment only. They are not intended to limit instruction in the classroom. Technology is a part of the Arizona Mathematics Standards, and students should still be interacting with technology as appropriate for engaging with and learning the standards.

**Grades 3-6: No calculators permitted on AzM2.**

**Grades 7-8: Scientific calculator permitted on AzM2 Math Part 1 only.**

**No calculators permitted on AzM2 Math Part 2.**

Scientific calculator should include these functions: standard four functions (addition, subtraction, multiplication, and division), decimal, change sign (+/-), parentheses, square root, and  $\pi$ .

They may NOT include: any problem solving or programming capabilities, place values, and inequalities. *Sample acceptable calculator: TI-30X IIS or similar.*

**Grade 10: Graphing calculators permitted on AzM2 Math Part 1 and Part 2.**

No calculators with Computer Algebra System (CAS) features are allowed. Calculators may NOT be capable of communication with other calculators through infrared sensors. NO instruction or formula cards, or other information regarding the operation of calculators such as operating manuals are permitted. The memory of any calculator with programming capability must be cleared, reset, or disabled when students **enter and exit** the testing room. Many calculators have a testing mode that will allow these features to be disabled and will meet the requirements of AzM2. Check the calculator documentation for instructions on enabling this mode. If the memory of any calculator is password protected, and cannot be cleared or reset, the calculator may NOT be used. Items for the Grade 10 test are written with these types of calculators in mind; however students may use a scientific calculator if they choose to do so. *Sample acceptable calculators: TI-84 Plus, Casio FX-9750GII, or similar.*

**Additional Guidance:**

- Students are not allowed to share calculators during a testing session.
- The AzM2 online calculators available for the computer-based assessment are available for practice use on the Calculator and Tutorials site at <http://azmeritportal.org/tutorials/>.
- For Grade 10 only, an online version of the scientific and graphing calculator will be available in the [Secure Browser](#) for students taking the paper-based version of the test. Students will not need to sign in to select the online calculator.
- No laptop, tablet, or phone-based calculators are allowed to be used during the AzM2 assessment unless they are used to access the AzM2 Secure Browser.
- The applicable portion of the computer-based assessment will include the acceptable online version of approved calculator. Providing handheld calculators is not a requirement for schools choosing the computer-based assessment. However, students may use an acceptable handheld calculator in addition to or instead of the online calculator.