

## **Calculator and Reference Sheet Policies for Florida Standards Assessments (FSA) Mathematics Assessments**

### **Calculators**

#### **Grades 3–6**

- No calculator permitted for paper-based or computer-based tests.

#### **Grades 7–8**

- Online scientific calculator provided in the CBT platform for Sessions 2 and 3 of the Grades 7 and 8 FSA Mathematics tests.
- Online calculator may be accessed in the FSA Portal for use in the classroom.
- CBT students may request and use a handheld scientific calculator during Sessions 2 and 3.
- Students with paper-based accommodations must be provided a handheld scientific calculator for Sessions 2 and 3.
- See below for a list of approved handheld scientific calculators, as well as a list of prohibited functionalities for calculators on the following page. Calculators that allow these prohibited functionalities may not be used.

#### **End-of-Course (EOC)**

- Online scientific calculator provided in the CBT platform for Session 2 of the Algebra 1, Geometry, and Algebra 2 tests.
- Online calculator may be accessed in the FSA Portal for use in the classroom.
- CBT students may request and use a handheld scientific calculator during Session 2.
- Students with paper-based accommodations must be provided a handheld scientific calculator for Session 2.
- See below for a list of approved handheld scientific calculators, as well as a list of prohibited functionalities for calculators on the following page. Calculators that allow these prohibited functionalities may not be used.

### **Handheld Scientific Calculators**

The following are FDOE-approved calculators for the 2016–17 school year:

- Texas Instruments TI-30Xa
- Casio fx-260 solar
- Casio fx-82 solar
- Sharp EL-510R
- Sharp EL-510RN

Schools may use calculators not on this list if district Mathematics specialists determine they meet the specifications on the following page. FDOE will not review or approve additional models not listed above. Calculators are only allowed for the calculator session(s) of FSA assessments for Grades 7–8, Algebra 1, Geometry, and Algebra 2. Students are not allowed to share calculators. Not every test item in the calculator section will require the use of a calculator.

**Note: A handheld four-function calculator may be provided for computer-based tests but is not recommended and may not be sufficient for all assessment items.**

Students will need access to the following calculator functions:

- $\pi$
- $x^2$
- Square root ( $\sqrt{\quad}$ )
- $x^3$  or  $x^y$  for Grade 8 and EOCs
- $e^x$  for Algebra 1 and Algebra 2
- Trigonometric functions for Geometry and Algebra 2
- log and/or ln for Algebra 2

Students **may not** use a handheld calculator that has ANY of the following prohibited functionalities:

- CAS (an ability to solve algebraically) or a solver of any kind
- regression capabilities
- a table
- unit conversion other than conversions between degrees and radians (e.g., feet to inches)
- ability to simplify radicals
- graphing capability
- matrices
- a display of more than one line
- text-editing functionality (edit, copy, cut, and paste)
- the ability to perform operations with complex numbers
- the ability to perform prime factorization
- the ability to find gcd or lcm
- wireless or Bluetooth capability or Internet accessibility
- QWERTY keyboard or keypad
- need for an electrical outlet
- calculator peripherals

**Please remember that students may not have access to ANY electronic device, including, but not limited to, cell phones and smartphones, during testing OR during breaks. They may not, therefore, use any personal electronic device to access a calculator. Use of an electronic device, other than an APPROVED handheld calculator, will result in test invalidation.**

### **Reference Sheets**

- Reference sheets and z-tables will be available as online references (in a pop-up window). A paper version will be available for paper-based tests.
- Reference sheets with conversions will be provided for FSA Mathematics assessments in Grades 4–8 and EOC Mathematics assessments.
- There is no reference sheet for Grade 3.
- For Grades 4, 6, and 7, Geometry, and Algebra 2, some formulas will be provided on the reference sheet.

- For Grade 5 and Algebra 1, some formulas may be included with the test item if needed to meet the intent of the standard being assessed.
- For Grade 8, no formulas will be provided; however, conversions will be available on a reference sheet.
- For Algebra 2, a z-table will be available.

<b>Grade</b>	<b>Conversions</b>	<b>Some Formulas</b>	<b>z-table</b>
3	No	No	No
4	On Reference Sheet	On Reference Sheet	No
5	On Reference Sheet	With Item	No
6	On Reference Sheet	On Reference Sheet	No
7	On Reference Sheet	On Reference Sheet	No
8	On Reference Sheet	No	No
Algebra 1	On Reference Sheet	With Item	No
Geometry	On Reference Sheet	On Reference Sheet	No
Algebra 2	On Reference Sheet	On Reference Sheet	Yes