

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

### **Calculators**

#### **Grades 3–6**

- No calculator permitted for Grades 3–6 FSA Mathematics tests.

#### **Grades 7–8**

- Online scientific calculator provided in the computer-based testing (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. (Note: A Florida-specific Desmos online calculator will replace the current online calculator starting in Winter 2018 for EOC assessments and starting in Spring 2019 for Grades 7 and 8.)
- CBT students may request and use an approved handheld scientific calculator during Sessions 2 and 3.
- Students with paper-based accommodations must be provided an approved 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 and Geometry tests.
- Online calculator may be accessed in the FSA Portal for use in the classroom. (Note: A Florida-specific Desmos online calculator will replace the current online calculator starting in Winter 2018 for EOC assessments and starting in Spring 2019 for Grades 7 and 8.)
- CBT students may request and use an approved handheld scientific calculator during Session 2.
- Students with paper-based accommodations must be provided an approved 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 2018–19 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 and Geometry. 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
- Trigonometric functions for Geometry

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 are available as online references (in a pop-up window) in the CBT platform. A paper version is included in the test and answer book 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 and Geometry, 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.

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