

State Approved Calculators for Standards of Learning Testing: Guidelines and Preparation Instructions for Testing

| Standards of Learning (SOL) Assessment | Calculator Model Types ^{1,2,3} | | |
|---|---|---------------------------------|----------|
| | Four-Function | Scientific | Graphing |
| Grade 4 Mathematics Grade 4 Plain English Mathematics | Allowed on calculator part only | | |
| Grade 5 Mathematics Grade 5 Plain English Mathematics | Allowed on calculator part only | | |
| Grade 5 Science | Allowed | | |
| Grade 6 Mathematics Grade 6 Plain English Mathematics | | Allowed on calculator part only | |
| Grade 7 Mathematics Grade 7 Plain English Mathematics | | Allowed on calculator part only | |
| Grade 8 Mathematics Grade 8 Plain English Mathematics (2001 and 2009 SOL) Grade 8 VMAST Mathematics (2009 SOL) | | Allowed | |
| Grade 8 Science | Allowed | Allowed | |
| Algebra I Plain English Algebra I (2001 and 2009 SOL) Algebra 1 VMAST (2009 SOL) | | | Allowed |
| Geometry (2001 and 2009 SOL) | | | Allowed |
| Algebra II (2001 and 2009 SOL) | | | Allowed |
| Earth Science (2003 and 2010 SOL) | Allowed | Allowed | Allowed |
| Biology (2003 and 2010 SOL) | Allowed | Allowed | Allowed |
| Chemistry (2003 and 2010 SOL) | Allowed | Allowed | Allowed |

¹Students may only use one hand-held state-approved calculator during a test, and are allowed the use of only one model of a calculator.

²Materials that provide information on calculator use or course content may not be used, attached to, or included with the calculator or its case during testing. Such materials include, but are not limited to, formula cards, calculator instruction sheets/manuals, or note cards.

³If the calculator provides a language option for the display, English must be selected.

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| Four-Function Calculators | Guidelines |
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| Any model that meets the criteria listed. | A four-function calculator that adds, subtracts, multiplies, and divides is allowed. The calculator may have +/- key(s), a square root key, and a percent key; it may not have fraction capabilities or a multi-line display. The calculator cannot provide information to a student through its display or formatting that may assist the student with content knowledge during testing. |
| Scientific Calculators | Guidelines |
| TI-30Xa Solar School Edition* CASIO FX-260 School *This calculator should have a white faceplate. | A scientific calculator may not have fraction capabilities or a multi-line display. The “TI-30Xa Solar School Edition” and the “Casio FX-260 School” are unique versions of those calculators that have fraction keys disabled. |
| Sharp EL-501W Series Sharp EL-501V Series Sharp EL-501X Series | A scientific calculator may not have fraction capabilities or a multi-line display. The Sharp EL-501W Series, EL-501V Series, and EL-501X Series calculators do not have fraction keys. The model numbers on these series of calculators may include additional letters that indicate the color of the calculator. For example, the Sharp EL-501W Series includes EL-501WBBL; the annexed “BBL” indicates the color of the calculator is blue. |
| Graphing Calculators | Memory Reset and Operating System Information |
| CASIO 9750G and 9750GII CASIO 9850 G Series CASIO 9860G CASIO 9860GII and 9860GIIs Casio PRIZM fx-CG10 | <p>Prior to SOL testing, reset “Main Memory.” This deletes all random access memory (RAM), Archive Memory, data, and programs, and resets the calculator to the factory default.</p> <p>Resetting these calculators will result in the default angle setting of “radian.” This setting must NOT be changed while preparing the calculators for testing. Prior to the day of testing, students should be instructed on how to adjust the angle setting. If desired, students can adjust the angle setting after the testing session begins, but must do so without prompting or reminders from examiners and/or proctors.</p> <p>9860GII and 9860GIIs: Prior to SOL testing, enable the Examination Mode. Examination mode places limits on calculator functions which allows it to be used when taking the SOL test. Instructions for enabling Examination Mode may be found at: https://edu.casio.com/download_service/download/ib/</p> |

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| <p>TI-82 TI-83</p> | <p>Prior to SOL testing, reset “All Memory.” This erases all data and programs.</p> <p>Resetting these calculators will result in the default angle setting of “radian.” This setting must NOT be changed while preparing the calculators for testing. Prior to the day of testing, students should be instructed on how to adjust the angle setting. If desired, students can adjust the angle setting after the testing session begins, but must do so without prompting or reminders from examiners and/or proctors.</p> |
| <p>TI-83 Plus Series TI-84 Plus Series TI-Nspire in TI-84 Plus mode</p> | <p>Option 1: Prior to SOL testing, reset “All Memory.” This option deletes all data, programs, and applications (APPs) from the random access memory (RAM) and Archive (flash ROM), except for the Finance APP.</p> <p>Approved APPs will be deleted from the calculator when this option is utilized. This is not recommended if students were provided the approved APPs during instruction.</p> <p>Option 2: Prior to SOL testing, reset “All RAM” (erases all data and programs) and reset the “Archive Vars” (erases all data and programs from Archive); and delete all APPs, except the following:</p> <ul style="list-style-type: none"> – Polynomial Root Finder and Simultaneous Equation Solver APP; – Conic Graphing APP; – Inequality Graphing APP; and – Finance APP. The Finance APP is built in and cannot be deleted from the calculator. <p>Resetting these calculators will result in the default angle setting of “radian.” This setting must NOT be changed while preparing the calculators for testing. Prior to the day of testing, students should be instructed on how to adjust the angle setting. If desired, students can adjust the angle setting after the testing session begins, but must do so without prompting or reminders from examiners and/or proctors.</p> |

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| <p>TI-Nspire (<u>non-CAS</u>) TI-Nspire CX (<u>non-CAS</u>)</p> | <p><u>Operating system prior to version 2.1.1:</u></p> <p>Prior to SOL testing, enable the Press-to-Test mode with all options disabled (keep all options checked). The Press-to-Test mode temporarily disables, rather than deletes, documents and some features including flash applications.</p> <p><u>Operating system between, and including, versions 2.1.1 and 3.1.x.xxx:</u></p> <p>Prior to SOL testing, enable the Press-to-Test mode and disable all options (keep all options checked) except for “Disable Inequality Graphing,” “Disable $\log_b x$ template and summation functions,” and “Disable Polynomial Root Finder and Simultaneous Equation Solver.”</p> <p><u>Operating system version 3.2 and higher:</u></p> <p>Prior to SOL testing, enable the Press-to-Test mode and disable all options (keep all options checked) except for “Disable Inequality Graphing,” “Disable Implicit Graphing, Conic Templates, Conic analysis and Geometric Conics,” “Disable $\log_b x$ template and summation functions,” and “Disable Polynomial Root Finder and Simultaneous Equation Solver.”</p> <p>It is recommended that the TI-Nspire operating system be updated for instruction and testing at https://education.ti.com/en/software/search</p> <p>The outdated operating system 2.0.0.1188 should not be used for testing, as it does not meet the minimum recommended features in Press-to-Test mode needed for the SOL test.</p> <p>The Press-to-Test mode defaults to the angle setting of “degree.” This setting should NOT be changed when placing the TI-Nspire or TI-Nspire CX into Press-to-Test mode. Prior to testing, students should be familiar with using the calculator in Press-to-Test mode and how to adjust the angle setting. If desired, students can adjust the angle setting after the testing session begins, but must do so without prompting or reminders from examiners and/or proctors.</p> |

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| <p>TI-73 Explorer</p> | <p>Prior to SOL testing, reset “All RAM” (erases all data and programs) <u>and delete all APPs.</u></p> <p>The following APPs (which are approved for use on SOL tests) are not available for the TI-73 Explorer: Polynomial Root Finder and Simultaneous Equation Solver; Conic Graphing; and Inequality Graphing.</p> <p>This calculator does NOT have all of the functionality of other approved graphing calculators. The TI-73 Explorer calculator is NOT recommended for use on the Algebra II (2009) SOL test.</p> <p>Resetting this calculator will result in the default angle setting of “degree.” This setting must NOT be changed while preparing the calculators for testing. Prior to the day of testing, students should be instructed on how to adjust the angle setting. If desired, students can adjust the angle setting after the testing session begins, but must do so without prompting or reminders from examiners and/or proctors.</p> |