



Graduation Numeracy Assessment Policy on Use of Calculators and other Electronic Devices

A scientific calculator is built into the online assessment. Students may also use their own calculator. Due to the number of calculators on the market, the Ministry of Education no longer reviews individual calculators. This policy provides a list of calculator features and functions that are restricted.

Calculators must be hand-held devices designed primarily for mathematical computations including addition, subtraction, multiplication and division; operations with exponents square and cube roots. (Graphing calculators are allowed.)

Devices such as smartphones, tablets, laptops and other electronics with cameras, storage, and Wi-Fi capabilities are not permitted.

Calculator functions that are restricted:

- Calculators that can access the Internet, have wireless, cellular, audio/video recording and playing, camera, or any other smartphone type features;
- Calculators that use a Computer Algebraic System (CAS), which allows manipulation of mathematical expressions in symbolic form;
- Any supplementary materials to support calculators (such as manuals, memory expansion chips or cards).

Calculators cannot be used to share information during the assessment, or to remove assessment questions or answers from the assessment room.

Calculators must not have any additional information programmed into the memory. Using a calculator containing information that would be unacceptable in paper form (e.g., programs or notes entered by a student) is prohibited. Calculators must not have any built-in notes, definitions, libraries or student constructed programs.

Calculators must be inspected by a knowledgeable invigilator prior to the assessment.

Using a calculator with restricted functions is considered disqualification. (See the Disqualification section in the [Handbook of Procedures](#) for the protocol in this case.)