

Calculators for secondary cycle in 2022-23

Dear Parents,

During the past two years major changes were made in Brussels concerning the use of calculators in the European Schools. This plan also includes the BOYD policy for the use of other technical devices in learning.

Unfortunately, the plan to use GeoGebra system wide as the main tool failed. The problems included unreliabilities in the program itself (crashing during exams) as well as the readiness for the Schools to support the program's needs for infrastructure (internet, devices). This has now led to the current situation we are in where the requirements for the calculators change periodically.

This document will cover detailed instructions for each secondary year level on what are the current requirements for school year 2022-2023. Please pay special attention to the years S4 and S5 and if there are any technical questions or problems, please refer to the Science and Mathematics coordinator Hilppa Elmgren.

Class	Calculator	Notes	Possible models
S1	No mandatory calculator	Scientific calculator can be used but no assessment requires the use of a calculator.	-The calculator needs to be NON-graphing and NON-programmable! -TI 30XS -TI 36X Pro -Casio FX-300MSPLUS -CITIZEN SR-270 - series -or a similar model
	Scientific calculator		
S2	No mandatory calculator	Scientific calculator can be used but no assessment requires the use of a calculator.	-The calculator needs to be NON-graphing and NON-programmable! -TI 30XS -TI 36X Pro -Casio FX-300MSPLUS -CITIZEN SR-270 - series -or a similar model
	Scientific calculator		
S3	No mandatory calculator	Possibility to use Scientific Calculator. The same calculator can also be used in S4.	-The calculator needs to be NON-graphing and NON-programmable! -TI 30XS -TI 36X Pro -Casio FX-300MSPLUS -CITIZEN SR-270 - series -or a similar model
	Scientific calculator		

S4	Scientific calculator	<p>Notice: there will be change for the year 2023-2024 but we don't know yet what so most likely a new calculator will be required then again.</p> <p>The same Scientific calculator goes for S3 and S4 so if a student has one from last year there is no need to purchase a new one!</p>	<p>-The calculator needs to be NON-graphing and NON-programmable! -TI 30XS -TI 36X Pro -Casio FX-300MSPLUS -CITIZEN SR-270 -series -or a similar model</p>
S5	Graphing calculator	<p>Change! This calculator will be used from S5 till S7. The BAC-exam at the end of S7 will be done with this calculator. Student needs to become an expert in the use of his/her calculator so starting early is necessary!</p>	<p>-Non-programmable! -Casio fx-9750GIII -NumWorks -Ti83/Ti84</p> <p>-NO Ti-Nspire series!</p>
S6	Scientific calculator	<p>No change! The BAC-exam will be done with this calculator.</p>	<p>-The calculator needs to be NON-graphing and NON-programmable! -TI 30XS -TI 36X Pro -Casio FX-300MSPLUS -CITIZEN SR-270 -series -or a similar model</p>
S7	Scientific calculator	<p>No change! The BAC-exam will be done with this calculator.</p>	<p>-The calculator needs to be NON-graphing and NON-programmable! -TI 30XS -TI 36X Pro -Casio FX-300MSPLUS -CITIZEN SR-270 -series -or a similar model</p>

Here are the official requirements sent to us by Brussels.

For S5 in 2022-2023

Required functionalities:

- Trigonometric functions
- Exponential & logarithm
- Numerical equation(s) solving
- 1-Var & 2-Var Statistics
- Factorials & combinations
- Binomial distribution
- Normal distribution
- Functions : Table of values
- Numeric integration
- Numerical differentiation
- Graphing

Forbidden functionality:

- Computer Algebra System

For S6 and S7 in 2022-2023:

Required functionalities:

- Trigonometric functions
- Exponential & logarithm
- Numerical equation(s) solving
- 1-Var & 2-Var Statistics
- Factorials & combinations
- Binomial distribution
- Normal distribution
- Functions: table of values
- Numerical integration
- Numerical differentiation

Allowed functionality:

- Graphing (this part will not be assessed in the European Baccalaureate examinations)

Prohibited functionality:

- Computer Algebra System

