

Calculator Policy

Calculators are allowed only for some or all parts of AP Exams in these subjects: Biology, Calculus (AB/BC), Chemistry, Environmental Science, Macroeconomics, Microeconomics, Physics 1, Physics 2, Physics C: Mechanics, Physics C: Electricity and Magnetism, Precalculus, and Statistics. Students may bring up to two permitted calculators to the exam.

Graphing calculators must be on the approved calculator list. (See pages 63–64.) Four-function calculators are basic calculators that have functions limited to addition, subtraction, multiplication, division, square roots, and percentage.

NEW The calculator policy for AP Precalculus, including a list of approved graphing calculators, is now included in this section.

Note: Calculators are **not allowed** for any other AP Exams, including Computer Science A* and Computer Science Principles*.

*Unless a student has an approved accommodation for use of a four-function calculator. (See page 105 for details.)

Biology

Type of Calculator	Exam Section I Multiple Choice	Exam Section II Free Response
<ul style="list-style-type: none"> ▪ Allowed: <ul style="list-style-type: none"> ◆ Four-function calculator (with square root) ◆ Scientific (nongraphing) calculator, but must not have unapproved features or capabilities (see the list of unapproved calculators and technology on page 61) ◆ Graphing calculator 	Allowed	Allowed

Calculus AB/Calculus BC

Type of Calculator	Exam Section I Multiple Choice	Exam Section II Free Response
<ul style="list-style-type: none"> ▪ Graphing calculator required and expected to have built-in capability to: <ul style="list-style-type: none"> ◆ Plot the graph of a function within an arbitrary viewing window. ◆ Find the zeros of functions (solve equations numerically). ◆ Numerically calculate the value of the derivative of a function at a point. ◆ Numerically calculate the value of a definite integral. ◆ If these capabilities aren't built in, the student should enter appropriate programs into the calculator before the exam. ▪ Not allowed: <ul style="list-style-type: none"> ◆ Nongraphing and other types of calculators are prohibited, even as a second calculator 	<p>Not allowed for Part A</p> <p>Required* for Part B</p>	<p>Required* for Part A</p> <p>Not allowed for Part B</p>

* "Required" indicates some questions can't be answered without a graphing calculator and **no** other calculator type is permitted.

Chemistry

Type of Calculator	Exam Section I Multiple Choice	Exam Section II Free Response
<ul style="list-style-type: none"> ▪ Allowed: <ul style="list-style-type: none"> ◆ Scientific (nongraphing) calculator (recommended), but must not have unapproved features or capabilities (see the list of unapproved calculators and technology on page 61) ◆ Graphing calculator ◆ Four-function calculator (not recommended) 	Allowed	Allowed

Environmental Science

Type of Calculator	Exam Section I Multiple Choice	Exam Section II Free Response
<ul style="list-style-type: none"> ▪ Allowed: <ul style="list-style-type: none"> ◆ Four-function calculator (with square root) ◆ Scientific (nongraphing) calculator, but must not have unapproved features or capabilities (see the list of unapproved calculators and technology on page 61) ◆ Graphing calculator 	Allowed	Allowed

Macroeconomics/Microeconomics

Type of Calculator	Exam Section I Multiple Choice	Exam Section II Free Response
<ul style="list-style-type: none"> ■ Allowed: <ul style="list-style-type: none"> ◆ Four-function calculator ■ Not allowed: <ul style="list-style-type: none"> ◆ Calculators with storage capabilities, such as scientific or graphing calculators, are prohibited 	Allowed	Allowed

Physics 1: Algebra-Based, Physics 2: Algebra-Based, Physics C: Electricity and Magnetism, Physics C: Mechanics

Type of Calculator	Exam Section I Multiple Choice	Exam Section II Free Response
<ul style="list-style-type: none"> ■ Allowed: <ul style="list-style-type: none"> ◆ Four-function calculator ◆ Scientific (nongraphing) calculator, but must not have unapproved features or capabilities (see the list of unapproved calculators and technology on page 61) ◆ Graphing calculator 	Allowed	Allowed

NEW Precalculus

Type of Calculator	Exam Section I Multiple Choice	Exam Section II Free Response
<ul style="list-style-type: none"> ■ Graphing calculator required and expected to have built-in capability to: <ul style="list-style-type: none"> ◆ Perform calculations (e.g., exponents, roots, trigonometric values, logarithms). ◆ Graph functions and analyze graphs. ◆ Generate a table of values for a function. ◆ Find real zeros of functions. ◆ Find points of intersection of graphs of functions. ◆ Find minima/maxima of functions. ◆ Find numerical solutions to equations in 1 variable. ◆ Find regressions equations to model data (linear, quadratic, cubic, quartic, exponential, logarithmic, sinusoidal, and plotting residuals). ◆ Perform matrix operations (e.g., multiplication, finding inverses). ■ Not allowed: <ul style="list-style-type: none"> ◆ Nongraphing and other types of calculators are prohibited, even as a second calculator 	Not allowed for Part A Required* for Part B	Required* for Part A Not allowed for Part B

* "Required" indicates some questions cannot be answered without a graphing calculator and **no** other calculator type is permitted.

Statistics

Type of Calculator	Exam Section I Multiple Choice	Exam Section II Free Response
<ul style="list-style-type: none"> ■ Allowed: <ul style="list-style-type: none"> ◆ Graphing calculator with statistical capabilities expected.* ◆ Scientific (nongraphing) calculator if the calculator has the required statistics computational capabilities described in the AP Statistics Course and Exam Description. <ul style="list-style-type: none"> – Computational capabilities should include standard statistical univariate and bivariate summaries, through linear regression. – Required capabilities may be either built in or programmed into the calculator before the exam. ◆ Graphical capabilities should include common univariate and bivariate displays such as histograms, boxplots, and scatterplots. ◆ It's up to the student to determine if the calculator meets the criteria of required computational and graphical capabilities. ■ Not allowed: <ul style="list-style-type: none"> ◆ Enhancements other than those that improve the calculator's computational and/or graphical functionalities are prohibited. Unapproved enhancements include, but are not limited to, keying or scanning text or response templates into the calculator. 	Expected*	Expected*

* Although scientific calculators with computational capabilities (standard statistical univariate and bivariate summaries, through linear regression) are allowed, students are expected to use a graphing calculator.