

## Calculator Policy

Calculators are allowed only for some or all parts of paper-and-pencil AP Exams in these subjects: Biology, Calculus (AB/BC), Chemistry, Environmental Science, Physics 1, Physics 2, Physics C: Mechanics, Physics C: Electricity and Magnetism, and Statistics. **Note:** Calculators are **not allowed** for any other AP Exams, including Computer Science A, Computer Science Principles, Macroeconomics, and Microeconomics. Students may bring up to two permitted calculators to the exam. Graphing calculators must be on the approved calculator list. See page 69.

### Biology

Type of Calculator	Exam Section I Multiple Choice	Exam Section II Free Response
<ul style="list-style-type: none"> <li>■ Allowed:               <ul style="list-style-type: none"> <li>◆ Four-function calculator (with square root)</li> <li>◆ Scientific (nongraphing) calculator, but must <b>not</b> have unapproved features or capabilities (see the list of unapproved calculators and technology on page 67)</li> <li>◆ Graphing calculator</li> </ul> </li> </ul>	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"> <li>■ Graphing calculator required and expected to have built-in capability to:               <ul style="list-style-type: none"> <li>◆ Plot the graph of a function within an arbitrary viewing window</li> <li>◆ Find the zeros of functions (solve equations numerically)</li> <li>◆ Numerically calculate the derivative of a function</li> <li>◆ Numerically calculate the value of a definite integral</li> <li>◆ If these capabilities aren't built in, the student should enter appropriate programs into the calculator before the exam</li> </ul> </li> <li>■ Not allowed:               <ul style="list-style-type: none"> <li>◆ Nongraphing and other types of calculators are prohibited, even as a second calculator</li> </ul> </li> </ul>	<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 cannot 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"> <li>■ Allowed:               <ul style="list-style-type: none"> <li>◆ Scientific (nongraphing) calculator (recommended), but must <b>not</b> have unapproved features or capabilities (see the list of unapproved calculators and technology on page 67)</li> <li>◆ Graphing calculator</li> <li>◆ Four-function calculator (not recommended)</li> </ul> </li> </ul>	Not allowed	Allowed

### Environmental Science

Type of Calculator	Exam Section I Multiple Choice	Exam Section II Free Response
<ul style="list-style-type: none"> <li>■ Allowed:                             <ul style="list-style-type: none"> <li>◆ Four-function calculator (with square root)</li> <li>◆ Scientific (nongraphing) calculator, but must <b>not</b> have unapproved features or capabilities (see the list of unapproved calculators and technology on page 67)</li> <li>◆ Graphing calculator</li> </ul> </li> </ul>	Allowed	Allowed

### Physics 1, Physics 2, Physics C: Mechanics, Physics C: Electricity and Magnetism

Type of Calculator	Exam Section I Multiple Choice	Exam Section II Free Response
<ul style="list-style-type: none"> <li>■ Allowed:                             <ul style="list-style-type: none"> <li>◆ Four-function calculator</li> <li>◆ Scientific (nongraphing) calculator, but must <b>not</b> have unapproved features or capabilities (see the list of unapproved calculators and technology on page 67)</li> <li>◆ Graphing calculator</li> </ul> </li> </ul>	Allowed	Allowed

### Statistics

Type of Calculator	Exam Section I Multiple Choice	Exam Section II Free Response
<ul style="list-style-type: none"> <li>■ Allowed:                             <ul style="list-style-type: none"> <li>◆ Graphing calculator with statistical capabilities expected*</li> <li>◆ Scientific (nongraphing) calculator if the calculator has the required statistics computational capabilities described in the <a href="#">AP Statistics Course and Exam Description</a> <ul style="list-style-type: none"> <li>– Computational capabilities should include standard statistical univariate and bivariate summaries, through linear regression</li> <li>– Required capabilities may be either built in or programmed into the calculator before the exam</li> </ul> </li> <li>◆ Graphical capabilities should include common univariate and bivariate displays such as histograms, boxplots, and scatterplots</li> <li>◆ It is up to the student to determine if the calculator meets the criteria of required computational and graphical capabilities</li> </ul> </li> <li>■ Not allowed:                             <ul style="list-style-type: none"> <li>◆ <b>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</b></li> </ul> </li> </ul>	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.