

## Calculators Required for Use in Mathematics Courses

Calculators are an important tool for mathematics and are required in all grade 7-12 math courses. Different models of calculators have different functionality and students need a calculator that is suitable for the mathematics they are studying. Many commonly available calculators are pre-programmed to perform calculations with fractions or solve advanced algebraic equations. These functions are required at some grade levels; however, progress is seriously compromised when calculators perform the mathematical operations the students are learning.

To ensure that all students have a calculator that is appropriate for their grade level, they must have the specific calculator models listed below. (Please check the model numbers carefully as very different calculators may have similar numbers.)

Grade	Required Functions	Functions <b>NOT</b> permitted	Required model(s)
<b>7-8</b>	<ul style="list-style-type: none"> <li>Basic operations, percentage, integer +/- key</li> </ul>	<ul style="list-style-type: none"> <li>Operations with fractions</li> </ul>	<ul style="list-style-type: none"> <li>Any good quality basic model</li> <li><u>Not</u> a scientific calculator</li> </ul>
<b>9-11</b>	<ul style="list-style-type: none"> <li>Operations with fractions,</li> <li>Square root</li> <li>Scientific notation</li> <li>Decimal value of trigonometric ratios</li> <li>Powers and square roots</li> <li>Exponential functions</li> </ul>	<ul style="list-style-type: none"> <li>Reduce radicals in exact form (i.e. <math>\sqrt{8} = 2\sqrt{2}</math>)</li> <li>Evaluate trig ratios in exact form (i.e. <math>\sin \frac{\pi}{6} = \frac{1}{2}</math>)</li> <li>Computer algebra system (CAS)</li> </ul>	<ul style="list-style-type: none"> <li>TI-30XIIS</li> </ul>
<b>12</b>	<ul style="list-style-type: none"> <li>A variety of graphing functions.</li> <li>Decimal solutions to most types of equations</li> <li>Statistical analysis</li> <li>Permutations and combinations</li> </ul>	<ul style="list-style-type: none"> <li>Reduce radicals in exact form</li> <li>Evaluate trig ratios in exact form (i.e. <math>\sin \frac{\pi}{6} = \frac{1}{2}</math>)</li> <li>Computer algebra system (CAS)</li> </ul>	<ul style="list-style-type: none"> <li>TI-83plus</li> <li>TI-84plus</li> <li>TI-84plus Silver edition, C Silver edition, or CE</li> </ul>

Grade 9-11: <https://education.ti.com/en/products/calculators/scientific-calculators/ti-30x-iis> ✓

Grade 12: <https://education.ti.com/en/products/calculators/graphing-calculators/ti-83-plus> ✓

<https://education.ti.com/en/products/calculators/graphing-calculators/ti-84-plus> ✓