

### Mathematics Online Tools

Tool name	Tool Icon	Tool Limits	Tool Description
Pointer		N/A	used to select a multiple-choice answer, place cursor in an answer box, plot points, select one or more answers, and click and drag
Eraser		N/A	removes tool markings and choices marked as eliminated
Highlighter		100	used to highlight text or graphics. <i>Once the 100<sup>th</sup> highlight is reached, any additional highlights will overwrite the last highlight made on the screen.</i>
Choice Eliminator		N/A	used to mark multiple choice answers the student does <u>not</u> want to consider
Pencil		3000 for non-Reading tests	used to make marks or notations <i>If 3000 pencil points are reached an error message will appear – “Error 8024: You have drawn more than is allowed. Use the Eraser tool to remove some marks so you can draw more.”</i>
Ruler		N/A	used to measure an object on the screen; available in inches and metric
Straightedge Tool 1 (capped line)		100	used to draw a straight mark/line <i>Once the 100<sup>th</sup> capped line is reached, any additional capped lines will overwrite the last capped line on the screen.</i>
Tool 2 (line)		100	<i>Once the 100<sup>th</sup> line is reached any additional lines will overwrite the last line on the screen.</i>
Dot		25	used to create a dot on the screen <i>Once the 25<sup>th</sup> dot is reached, any additional dots will overwrite the last dot on the screen.</i>
Protractor		N/A	used to measure an angle
Exhibit		N/A	provides access to formula sheet, z-table (as applicable), and copyright information (on the sample item for all tests)
Compass		40	used for geometry constructions <i>Once the 40<sup>th</sup> arc is reached, any additional arcs will overwrite the last arc on the screen.</i>
4-Function Calculator		N/A	a calculator that adds, subtracts, multiplies, and divides
Help		N/A	provides directions on how to use each tool; available on all tests

### Online Tools Available on the Grades 3-5 Mathematics Standards of Learning Tests

Tool Name	Pointer	Eraser	Highlighter	Choice Eliminator	Pencil	Ruler	Straightedge Tool 1	Straightedge Tool 2	Dot	Protractor	Exhibit	4-Function Calculator	Help
Tool Icon													
SOL Test													
<b>Grade 3 Mathematics</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓
<b>Grade 3 Plain English Mathematics</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓
<b>Grade 4 Mathematics</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓ Part 2 only	✓
<b>Grade 4 Plain English Mathematics</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓ Part 2 only	✓
<b>Grade 5 Mathematics</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ Part 2 only	✓
<b>Grade 5 Plain English Mathematics</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ Part 2 only	✓

**Online Tools Available on the Grades 6-8 Mathematics Standards of Learning Tests**

Tool Name	Pointer	Eraser	Highlighter	Choice Eliminator	Pencil	Ruler	Straightedge Tool 1	Straightedge Tool 2	Dot	Protractor	Exhibit	4-Function Calculator	Help
Tool Icon													
SOL Test													
<b>Grade 6 Mathematics CAT</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Formula Sheet		✓
<b>Grade 6 Plain English Mathematics</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Formula Sheet		✓
<b>Grade 7 Mathematics</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓		Formula Sheet		✓
<b>Grade 7 Plain English Mathematics</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓		Formula Sheet		✓
<b>Grade 8 Mathematics (2009)</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓		Formula Sheet		✓
<b>Grade 8 Mathematics (2001)</b>	✓	✓	✓	✓	✓	✓		✓			Formula Sheet		✓
<b>VMAST Grade 8 Mathematics (2009)</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓
<b>Grade 8 Plain English Mathematics (2009)</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓		Formula Sheet		✓
<b>Grade 8 Plain English Mathematics (2001)</b>	✓	✓	✓	✓	✓	✓		✓			Formula Sheet		✓

### Online Tools Available on the End-Of-Course Mathematics Standards of Learning Tests

Tool Name	Pointer	Eraser	Highlighter	Choice Eliminator	Pencil	Ruler	Straightedge Tool 1	Straightedge Tool 2	Dot	Exhibit	Compass	4-Function Calculator	Periodic Table of Elements	Help
Tool Icon														
SOL Test														
<i>Algebra I</i> (2009)	✓	✓	✓	✓	✓	✓	✓	✓	✓	Formula Sheet				✓
<i>Algebra I</i> (2001)	✓	✓	✓	✓	✓	✓		✓		Formula Sheet				✓
<i>VMAST Algebra I</i> (2009)	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
<i>Algebra I Plain English Mathematics</i> (2009)	✓	✓	✓	✓	✓	✓	✓	✓	✓	Formula Sheet				✓
<i>Algebra I Plain English Mathematics</i> (2001)	✓	✓	✓	✓	✓	✓		✓		Formula Sheet				✓
<i>Geometry</i> (2009)	✓	✓	✓	✓	✓	✓	✓	✓	✓	Formula Sheet	✓			✓
<i>Geometry</i> (2001)	✓	✓	✓	✓	✓	✓		✓		Formula Sheet	✓			✓
<i>Algebra II</i> (2009)	✓	✓	✓	✓	✓	✓	✓	✓	✓	Formula Sheet & z-table				✓
<i>Algebra II</i> (2001)	✓	✓	✓	✓	✓	✓		✓		Formula Sheet				✓