How to Make Accessible Math & Science

Component	Math Tools	Best Practices
Math & Science equations, formulas and notation	**MathML**	MathML stands for 'Math Markup Language' which is the web standard for accessible online math and science notation/equations/formulas. Typically, a user does not create MathML, but instead uses a conversion process to output MathML.
	D2L	We recommend that as much of the online class as possible be conducted within D2L. All output from D2L's equation editor is stored as MathML, which is screen reader-accessible.
	Word documents	MathType is an equation editor created by Design Science that is compatible with MS Word for Windows and Mac. Together, MS Word with MathType can be exported as MathML or it can be converted to braille. (Save your original files.) **DO NOT** use Microsoft's equation editor.
	PDFs	Math **IS NOT** accessible in PDF. Save the original file with the original MathType or LaTeX equations. Disability Services will ask for your original files when there is an accommodation need.
	PowerPoints	For MS PowerPoint 2013, use the MathType 6.9 plugin or later to create math and science equations, formulas and notations. **DO NOT** use Microsoft's equation editor. If you convert to a PDF or export to a webpage, save your original MS PowerPoint files which Disability Services may ask for.
	Graphs	To make graphs accessible, do your best to describe them using alternative text, long descriptions, or captions. We can supplement with tactile graphics if necessary.
	LaTeX	LaTeX is a mark-up language. Converting LaTeX documents into an accessible format is usually straightforward. Keep LaTeX original files if you convert to other formats.
	WeBWorK	WeBWorK is an accessible and free online homework platform for math and sciences courses.
	LibreOffice	LibreOffice (with its native equation editor) exports easily to web pages that contain MathML.

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Save your original files. You may need them if you have a student who needs alternative formats.