

D833 time allotment recommendations for K-12 core MATHEMATICS curriculum

- Recommendation is based on the Minnesota State Standards in Math and represents the minimum time needed to meet standards.
- The Minnesota Department of Education does not publish recommendations regarding minutes of instruction for each content area, however it is recommended that K – 6 students receive at least 60 minutes of mathematical instruction each day.
- Per Minnesota state law, the 2007 standards were fully implemented by the 2011-2012 school year.
- Although it appears the number of standards has been reduced in each grade level, it must be noted that the Mathematical Reasoning Strand has now been imbedded within other strands rather than being listed separately as they were in the 2003 standards. (# MR) identifies these in the chart.
- The 2007 standards are mastery standards meaning all students are expected to master the benchmarks in the grade level listed. Previously the goal was for 80 % of students to attain mastery by the grade level listed.
- High School standards previously were for graders 9 – 12. They now need to be mastered by the end of grade 11.
- Many of the 2007 standards are much more inclusive, broader and rigorous than the 2003 benchmarks which were very specific.

Grade	MDE Standards Requirements		D833 Framework			To make note of...
	# of benchmarks 2003 standards	# of benchmarks 2007 standards	Minutes per day	Minimum days per week	Full or partial year	
K	19 (3 MR)	13	30 minutes	5 days	full year	Based on a ½ day kindergarten program.
1	21 (3 MR)	20	60 minutes	5 days	full year	
2	29 (3 MR)	20	60 minutes	5 days	full year	
3	33 (6 MR)	26	60 minutes	5 days	full year	
4	31 (6 MR)	27	60 minutes	5 days	full year	
5	33 (7 MR)	27	60 minutes	5 days	full year	
6	36 (6 MR)	33	60 minutes	5 days	full year	
7	33 (6 MR)	34	60 minutes	5 days	full year	
8	38 (6 MR)	35	60 minutes	5 days	full year	
9-12 / 9-11	78 (6 MR)	71	60 minutes	5 days	full year	MCA exam given at the end of 11 th grade for graduation.

This following quote is from the MDE Standards Document. "The most obvious differences are the result of the law passed by the legislature in 2006 that all students "must satisfactorily complete an algebra I credit by the end of 8th grade." (Minn. Stat. § 120B.023, subd. 2(B)(1) (2006).) This requirement raises the expectations for mathematics in 8th grade and has impact on other grades as well, particularly 6th grade, where students must master arithmetic with positive decimals and fractions, and 7th grade, where students must master material about proportional relationships and equations with variables. With algebra I moving to 8th grade, more time is allowed in high school, in order to allow a more thorough approach to geometry and probability, to meet another legislative requirement, that all students "must satisfactorily complete an algebra II credit or its equivalent" in order to graduate from high school, and to give students the opportunity to study more advanced mathematical topics in 12th grade."

The link to the Minnesota State Academic Standards in Mathematics can be found below.

http://www.education.state.mn.us/MDE/Academic_Excellence/Academic_Standards/Math/index.html