

# Grade 8 Math Curriculum and Assessment Guide 2021-2022

Standards for Mathematical Practice
<ol style="list-style-type: none"> <li>1. Make sense of problems and persevere in solving them.</li> <li>2. Reason abstractly and quantitatively.</li> <li>3. Construct viable arguments and critique the reasoning of others.</li> <li>4. Model with mathematics.</li> <li>5. Use appropriate tools strategically.</li> <li>6. Attend to precision.</li> <li>7. Look for and make use of structure.</li> <li>8. Look for and express regularity in repeated reasoning.</li> </ol>

Literacy Skills for Mathematical Proficiency
<ol style="list-style-type: none"> <li>1. Use multiple reading strategies.</li> <li>2. Understand and use correct mathematical vocabulary.</li> <li>3. Discuss and articulate mathematical ideas.</li> <li>4. Write mathematical arguments.</li> </ol>

Nine Weeks Dates			
8/2/2021 - 9/30/2021	10/11/2021 - 12/17/2021	1/04/2022 - 3/9/2022	3/10/2022 - 5/25/2022

CASE Benchmark Assessment Windows		
September 27- October 8	December 13-16 & January 4-12	February 28-March 18

STAR Assessment Dates		
8/16/21 - 8/27/21	12/13/21 - 1/12/22	5/9/22 - 5/20/22

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**Instructional Focus Documents:** The following links are provided for the Instructional Focus Documents for your grade level and the grade level prior to guide your instruction and differentiation. These resources contain Tennessee grade-level mathematics standards with evidence of learning statements for each standard along with instructional focus statements for each standard.

7th Grade:

[https://www.tn.gov/content/dam/tn/education/standards/math/Standards\\_Support\\_grade\\_7\\_Mathematics.pdf](https://www.tn.gov/content/dam/tn/education/standards/math/Standards_Support_grade_7_Mathematics.pdf)

8th Grade:

[https://www.tn.gov/content/dam/tn/education/standards/math/Standards\\_Support\\_grade\\_8\\_Mathematics.pdf](https://www.tn.gov/content/dam/tn/education/standards/math/Standards_Support_grade_8_Mathematics.pdf)

**Math Vertical Progressions:** The Math Vertical Coherence Maps provide a Tennessee specific vertical progression of learning for grades 1-8 based on the Tennessee Academic Standards for Mathematics. This will assist in identifying potential learning loss for students, identify standards that may need scaffolding, and a quick reference to help teachers plan for instruction. More information can be found

[https://mcusercontent.com/b28b453ee164f9a2e2b5057e1/files/695c333f-3420-41b8-8343-f07e910efef0/Math\\_and\\_Science\\_Vertical\\_Progression.pdf?mc\\_cid=4673be8aaa&mc\\_eid=e8a7f914d5](https://mcusercontent.com/b28b453ee164f9a2e2b5057e1/files/695c333f-3420-41b8-8343-f07e910efef0/Math_and_Science_Vertical_Progression.pdf?mc_cid=4673be8aaa&mc_eid=e8a7f914d5)

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### Grade 8: Math Vertical Coherence Map

Grade 8: Mathematics Vertical Coherence Map		
The Number System (NS)		
Previous Standards	Grade Level Standard	Future Standards
7.RP.A.2 7.NS.A.2	8.NS.A.1	A1.A.SSE.B.3 A1.CED.A.4 A1.REI.B.3 M1.A.SSE.B.2 M1.A.CED.A.4
7.NS.A.2	8.NS.A.2	A1.A.SSE.B.3 A1.CED.A.4 A1.REI.B.3 M1.A.SSE.B.2 M1.A.CED.A.4

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Expressions and Equations (EE)		
Previous Standards	Grade Level Standard	Future Standards
7.NS.A.1 7.NS.A.2	8.EE.A.1	A1.A.APR.A.1 M2.A.APR.A.1
7.NS.A.3	8.EE.A.2	A1.A.CED.A.1 A1.A.REI.B.3 M1.A.CED.A.1
6.EE.A.1	8.EE.A.3	A1.N.Q.A.1 M1.N.Q.A.1
7.NS.A.2 7.NS.A.1 7.EE.B.3	8.EE.A.4	A1.N.Q.A.1 M1.N.Q.A.1
7.RP.A.2 7.EE.B.4	8.EE.B.5	A1.A.REI.D.5 M1.A.REI.C.3
7.G.A.1 7.RP.A.2	8.EE.B.6	A1.A.REI.D.5 M1.A.REI.C.3
7.EE.A.1 7.EE.B.4 7.NS.A.1 7.RP.A.2	8.EE.C.7	A1.A.CED.A.4 A1.A.REI.A.1 A1.A.REI.B.2 M1.A.CED.A.4 M1.A.REI.A.1
7.RP.A.3 7.EE.B.4 7.RP.A.2	8.EE.C.8	A1.A.CED.A.2 A1.A.CED.A.3 A1.A.REI.C.4 M1.A.CED.A.2 M1.A.CED.A.3 M1.A.REI.B.2

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Functions (F)		
Previous Standards	Grade Level Standard	Future Standards
7.RP.A.2	8.F.A.1	A1.F.IF.A.1 M1.F.IF.A.1 M1.G.CO.A.2
7.RP.A.2 7.EE.B.4	8.F.A.2	A1.F.IF.C.8 M1.F.IF.C.7
7.RP.A.2 7.G.A.1	8.F.A.3	A1.F.LE.A.1 M1.F.LE.A.1
7.RP.A.2 7.EE.B.4	8.F.B.4	A1.A.CED.A.2 A1.F.BF.A.1 A1.F.IF.B.5 A1.F.LE.A.1 A1.F.LE.B.4 A1.F.LE.A.2 A1.S.ID.C.5 M1.F.LE.B.4 M1.A.CED.A.2 M1.F.BF.A.1 M1.F.BF.A.2 M1.S.ID.C.5 M1.F.LE.A.1 M1.F.LE.A.2
7.RP.A.2	8.F.B.5	A1.F.IF.B.3 A1.F.LE.A.1 A1.F.LE.A.3 A1.F.LE.A.3 M1.F.IF.B.3 M1.F.LE.A.1 MA.F.LE.A.3

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Geometry (G)		
Previous Standards	Grade Level Standard	Future Standards
7.G.B.4 7.G.A.2	8.G.A.1	G.CO.A.2 G.CO.A.4 M1.G.CO.A.2 M1.G.CO.A.4
7.G.B.5 7.G.A.2 7.G.B.4	8.G.A.2	G.CO.A.5 G.CO.B.6 M1.G.CO.A.5 M1.G.CO.B.6
7.G.A.2 7.G.B.4	8.G.A.3	G.CO.C.9 G.CO.C.10 M1.G.CO.C.9 M1.G.CO.C.10
7.G.B.5	8.G.B.4	G.SRT.B.4 M2.G.SRT.B.4
7.EE.B.4	8.G.B.5	G.SRT.C.8 M2.G.SRT.C.8

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6.G.A.3	8.G.B.6	G.GPE.A.1 G.GPE.B.2 G.GPE.B.5 M3.G.GPE.A.1 M3.G.GPE.B.2 M3.G.GPE.B.5
7.G.B.3 7.NS.A.3	8.G.C.7	G.GMD.A.1 G.GMD.A.2 G.MG.A.1 G.MG.A.2 M2.G.GMD.A.1 M2.G.GMD.A.2

Statistics and Probability (SP)		
Previous Standards	Grade Level Standard	Future Standards
6.NS.C.8 6.G.A.3	8.SP.A.1	A1.S.ID.B.4 A1.S.ID.C.7 M1.S.ID.B.4 M1.S.ID.C.7
6.NS.C.8	8.SP.A.2	A1.S.ID.B.4 A1.S.ID.C.6 M1.S.ID.B.4 M1.S.ID.C.6
7.RP.A.3	8.SP.A.3	A1.S.ID.C.5 M1.S.ID.C.5
7.RP.A.3 7.SP.C.7	8.SP.B.4	A2.S.CP.A.1 A2.S.CP.A.2 M2.S.CP.A.1 MS.S.CP.A.2 MS.S.CP.B.5

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GoMath Suggested Modules at a Glance (For Pacing Information Please See Tennessee CER 8th Grade Math Pacing Guide)			
First Nine Weeks	Second Nine Weeks	Third Nine Weeks	Fourth Nine Weeks
1-2, 3-4	5-6, 7-8	9-10,11-13, 14	14-15

**Notes:**

\*See Tasks on Edutoolbox.org <https://www.edutoolbox.org/tntools/menu/grade/819/6128>

\*District Multiplication Tests are to be given at the beginning, middle, and end of the year. Teachers may print and use the district paper copy or choose to use the district online assessment in Google Forms.

\*Concrete Representational Abstract (CRA) instructional approach will be used in teaching math concepts to develop a deep and sustainable conceptual understanding.



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