

Instructional Guide
Grade 5 – Mathematics
January 2023 through June 2023

Grade 5 Overview

Module	Standards
M1: Whole Number and Decimal Fraction Place Value to the One-Thousandths	5.NBT.1, 5.NBT.2, 5.NBT.3a, 5.NBT.3b, 5.NBT.4, 5.NBT.7, 5.MD.1
M2: Multi-digit Whole Number and Decimal Fraction Operations: Reasoning About Partial Products and Quotients	5.OA.1, 5.OA.2, 5.NBT.1, 5.NBT.2, 5.NBT.5, 5.NBT.6, 5.NBT.7, 5.MD.1
M3: Addition and Subtraction of Fractions	5.NF.1, 5.NF.2
M4: Multiplication and Division of Fractions and Decimal Fractions	5.OA.1, 5.OA.2, 5.NBT.7, 5.NF.3, 5.NF.4a, 5.NF.5, 5.NF.6, 5.NF.7, 5.MD.1, 5.MD.2
M5: Addition and Multiplication with Volume and Area	5.NF.4b, 5.MD.3, 5.MD.4, 5.MD.5, 5.G.3, 5.G.4
M6: Graph Points on the Coordinate Plane to Solve Problems	5.OA.2, 5.OA.3, 5.G.1, 5.G.2

See *PAGE 5* for your January to June PACING

K-8 MATHEMATICS - DIGITAL RESOURCES

	Zearn	Moby Max	i-Ready	First in Math (K-5)	IXL
Purpose	Zearn Math instructional resources are designed to mirror teacher instruction with Eureka/EngageNY.	Moby Max is designed to find and fix learning gaps using the power of personalized learning.	i-Ready provides teachers with individualized data and suggested differentiated instruction to support student learning.	First In Math provides self-paced activities to help students strengthen fact fluency, automaticity, computational thinking, and other critical skills that support STEM readiness.	IXL is a targeted learning tool used to provide personalized action plans and links related to the academic progress and areas of need for each student
District Expectations	<p>Zearn will be used to support grade level instruction. The independent digital lessons will be assigned following teacher instruction.</p> <p>Zearn may also be used for re-teach, in cases where students need review of previous grade level content.</p>	<p>Moby Max will be used to provide intervention in the areas where individual students are struggling.</p> <p>Every student will take the Moby Max diagnostic at the start of the year; providing each student with an individualized plan for learning.</p> <p>Moby Max may also be used to support grade level instruction.</p>	<p>i-Ready will be used as the district's math screener for grades K-8.</p> <p>Every student will take the digital math screener during the three identified testing windows: BOY, MOY and EOY.</p>	<p>First In Math will be used for fluency practice; to master facts, practice procedural skills and engage in problem-solving.</p>	<p>IXL will be used as a district benchmark for all high school math courses <u>and</u> grade 8 Algebra during three identified testing windows: BOY (diagnostic), MOY (snapshot) and EOY (snapshot).</p> <p>Students must also work in IXL diagnostic arena for 10 minutes <u>each week</u> in order to keep their levels and recommendations up to date.</p>
Available supports/webinars	about.zearn.org/school-account-resources password: Zearn2020	https://vimeo.com/mobymax	https://login.i-ready.com/educator/help	https://explore.firstinmath.com/program-content/educator-questions/?cc=us	https://www.ixl.com/userguides

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IMPORTANT Module 4 Notes:

Based on the *Next Generation Math Standards (to be implemented THIS YEAR)*, please be aware of the following:

- N/A

Module 4 Vocabulary

Decimal divisor

Simplify

IMPORTANT Module 5 Notes:

Based on the *Next Generation Math Standards (to be implemented THIS YEAR)*, please be aware of the following:

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- **5.NF.4b:** Clarification in wording to include “For example, the figure below shows $(2/3) \times (3/4)$ by tiling it with rectangles of the appropriate unit fraction side lengths”
- **5.MD.4:** Clarification in wording to include “Measure volumes by counting unit cubes, using cubic cm., cubic in., cubic ft., and improvised units”.
- **5.MD.5a:** Clarification in wording to include “ Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base”.
- **5.MD.5c:** Clarification in wording to include a diagram of a solid composed of two rectangular prisms.

Module 5 Vocabulary		
Base	Bisect	Cubic Units
Height	Hierarchy	Unit Cube
Volume of a Solid		

IMPORTANT Module 6 Notes:

Based on the **Next Generation Math Standards (to be implemented THIS YEAR)**, please be aware of the following:

- N/A

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Module 6 Vocabulary			
Axis	Coordinate	Coordinate pair	Coordinate plane
Ordered pair	Origin	Quadrant	

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PACING Plan for January 2023 – June 2023

Please note that there will be times throughout the YEAR you may be omitting lessons at this grade level, and/or combining lessons at this grade level. This is all to ensure that our students have the foundational and grade level conceptual understanding to progress masterfully as the standards outline.

The decisions that were made were based on the progression of content from grade to grade (coherence). Those March - June standards that underlie the mastery of this year's standards were deemed essential and it was determined that they must be embedded in this years' pacing.

Grade 5				
Quarter 3 - weeks	Quarter 3 - dates	Jan-June PACING	Zearn	Instructional Notes
i-Ready MOY SCREENING WINDOW (1/23 – 2/17)				
Week 21	1/30 - 2/3	M4: Lessons 6, 7, 8	Mission 4: Lessons 7, 8	Suggestion: Assign lessons 7 and 8 on Zearn to students. These can be completed asynchronously. Look at the results on Zearn and pull students who struggle with those concepts in small groups.

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Week 22	2/6 - 2/10	M4: Lessons 6, 7, 8	Mission 4: Lessons 11, 12	Suggestions: Combine Lessons 11-12 as they address the same standards and objectives. Use Lesson 11, Problem Set 11, #1, and 3 and embed Lesson 12 #1, #4, and #5.
Week 23	2/13 - 2/17	M4: Lessons 13, 14, 15/16	Mission 4: Lesson 15,16	Suggestion: Combine Lessons 15 and 16. Lesson 15 addresses multiplying non unit fractions by non-unit fractions and Lesson 16 addresses practicing everything learned in Lessons 13-16 using word Problems. Suggestion: Teach Lesson 15. Use Lesson 15, Problem Set 15, #1-2. Use Lesson 16 Problem Set #1-3.
Week 24	2/27 - 3/3	M4: Lessons 17/18, 19, 20/21	Mission 4: Lessons 18, 19, (Mission 4, Lesson 20-21 for students struggling with lesson 19.)	(Mid-Module Assessment) Suggestion: Combine Lessons 17-18 as the concepts build on each other. Teach Lesson 17, Complete Problem Set 17, #1-2 and embed Lesson 18, #3-4. Suggestion: Combine Lessons 20-21 as the concepts build on each other. . Teach Lesson 20 and use Lesson 20 Problem Set #1 and Lesson 21 Problem Set #2-3.
Week 25	3/6 - 3/10	M4: Lessons 22/23, 24, 25	Mission 4: Lessons 23, 25	Suggestion: Combine Lessons 22-23 as they address the same standards and objectives. Teach Lesson 22. Use Lesson 22, Problem Set 22, #1-3 and embed Lesson 23, Problem Set 23, #1-2.

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Week 26	3/13 - 3/17	M4: Lessons 26/27, 28, 29	Mission 4: Lessons 26, 27	Suggestion: Combine Lessons 26-27 as the concepts build on each other. Teach Lesson 26 and embed the Lesson 27 Concept Development Problem 1 question where they divide unit fractions by a whole number within the lesson. Use Problem Set 27, Question 1 for word problem practice.
Week 27	3/20 - 3/24	M4: Lesson 30/31, 32/33 M5: Lesson 1	Mission 4: Lessons 31	Suggestion: Combine Lessons 30-31 as they teach the same standards and objectives. Teach Lesson 30 and embed Lesson 31 questions. Use Problem Set 30, #1 and Problem Set 31, #1 and 4. Suggestion: Combine Lessons 32-33 as the concepts build on each other. Teach Lesson 32 and embed Lesson 33 questions. Use Problem Set 32, #1-3 and Problem Set 33, #1 and 4. End of Module Assessment
Week 28	3/27 - 3/31	M5: Lessons 2/3, 4, 5	Mission 5: Lessons 2,3	Suggestion: Combine lessons 2-3 as the concepts build on each other. Teach lesson 2 and embed the examples in lesson 3 with using cubes and drawing the prisms. Use Problem Set 2 #1 and #2 and Problem Set 3, #1.
Week 29	4/10 - 4/14	M5: Lessons 6/7, 8/9, 10/11	Mission 5: Lessons 6, 8	Suggestion: Combine Lessons 6-7 as Lesson 7 provides word problem practice related to Lesson 6. Teach Lesson 6 and embedding word-problems from lesson 7. Use Lesson 7, Problem Set, #1, and #2. Suggestion: Combine Lessons 8-9 as they address the same standards and objectives. Teach Lesson 8. Use Problem Set. Lesson 8, #1-#5 If time allows and students struggle with Lesson 8, you may want to allow

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				<p>time to teach Lesson 9.</p> <p>Suggestion: Combine lessons 10-11 as the concepts build on each other. . Teach Lesson 10. While completing the concept development, use both whole-by-mixed and mixed-by-mixed numbers. Then assign problem set 10, #1-3 and Problem Set 11, #1-2.</p>
Week 30	4/17 - 4/21	M5: Lessons, 12/13, 14/15	Mission 5: Lesson 12, 14	<p>Mid-Module Assessment</p> <p>Suggestion: Combine lesson 12 and 13 as the concepts are related. Teach lesson 12 and use lesson 13 problem set for extended practice. Use Lesson 12 Problem DSet #1 and 2 and Lesson 13, Problem Set #1 and 2.</p> <p>Suggestion: Combine lessons 14-15 as they address the same standards and objectives. Teach Lesson 14 and embed Lesson 15 Concept development Problem 1. Then use the Lesson 15 Problem Set.</p>
Quarter 4- weeks	Quarter 4 - dates	Jan-June PACING	Zearn	Instructional Notes
Week 31	4/24 - 4/28	M5: Lessons 16, 17, 18/19	Mission 5: Lessons 16, 18	<p>Suggestion: Combine Lessons 18-19 as the concepts build on each other. Teach Lesson 18 Concept Development using Problems 1-2, and Lesson 19 Concept Development using Problems 1-2. assign Problem Set 18, #1 and Problem Set 19, #1.</p>

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Week 32	5/1 - 5/5	M5: Lessons 20, 21	Mission 5: Lessons 20, 21	End of Module Assessment
Week 33	5/8 - 5/12	M6: Lessons 1,2, 3/4	Mission 6: Lessons 1, 3	Suggestion: Consider combining lessons 1-2. Plan to teach Lesson 2 and touch on Lesson 1 before as a brief review. Start with Lesson 1. Use the Problem Set, questions 1-2 to review plotting on a line. Then move on to Lesson 2. Suggestion: Combine Lessons 3-4 as they address the same standards and the same objectives. Teach Lesson 3. If time allows, Lesson 4 uses the game Battleship to teach.
Week 34	5/15 - 5/19	M6: Lessons 4-6	Mission 6: Lesson 4, 6	Suggestion: Combine Lessons 5-6 as they address the same standards and the same objectives. Teach using Lesson 5 Concept Development, Problem 1 and Lesson 6 Concept Development, Problem 1. Then use Lesson 5, Problem Set #1 and Lesson 6, Problem Set #1.
i-Ready EOY SCREENING WINDOW (5/22 – 6/16)				
Week 35	5/22 - 5/26	M6: Lessons 7, 8/9	Mission 6: Lessons 7, 9	Suggestion: Combine 8-9. Teach Lesson 8 using Concept Development, Problem 1, and embed The Concept Development from Lesson 9 using Problem 1. Then assign Lesson 8, Problem Set # 1, and 2 and Lesson 9,

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				Homework #1.
Week 36	5/30 - 6/2	M6: Lessons 10/11, 12	Mission 6: Lessons 10, 12	Suggestion: Combine 10-11. Teach Lesson 10 using Concept Development, Problem 1, and embed The Concept Development from Lesson 11 using Problem 1. Then assign Lesson 10, Problem Set # 1, and Lesson 11, Problem Set #1.
Week 37	6/5 - 6/9	M6: Lessons 12-14	Mission 6: Lessons 12, 14	Consider Combining Lesson 13-14.
Week 38	6/12 - 6/16	M6: Lessons 15-17	Mission 6: Lessons 15, 17	Consider Combining Lesson 15-16. You may also want to give the Mid-Module Assessment this week.
Week 39	6/19 - 6/23	M6: Lessons 18- 20	Mission 6: Lessons 18, 20	Note: *Module 6: Lessons 26-34 are all a reflection on “A Story of Units”. It is essentially a review of the “YEARS” spent on a “Story of Units”. This can be addressed if time allows, End of Module Assessment – Note: it does not include lessons 21-34